

CATALOG NO. 60



Adjustable Wrenches	43	Piston Ring Tools	68	Sockets & Fittings	
Battery Service Tools	69	Pliers		1/4"	19-21
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WARRANTY

Our products are warranted against defects in workmanship and material, during the normal life of the product.

Refer to Page 36 for Micrometer Torque Wrench Warranty.

Replacement of any defective tool will be made without charge upon its return to the place of purchase.

This warranty does not apply if inspection shows that the tool has been worn out from use, abused, altered or used for purposes other than that for which it was designed.

Our liability under all warranties, expressed or implied, shall be limited to the replacement or repair of our products.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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Pride • Tradition • Technology

Sound reputations are built over a period of years . . . once acquired, they are valued highly.

We at Duro Metal Products Company take PRIDE in our reputation. Since 1917 we have manufactured tools which professionals and do-it-yourselfers recognize as quality tools. Our tools are made in America by skilled union craftsmen who are proud of their work.

Our dedication to manufacturing the finest hand tools is now a TRADITION. Tools manufactured to our exacting specifications from only the best materials provide long-lasting service and dependability. We are continually adding new TECHNOLOGY to modernize our 360,000 square foot plant space.

You can count on Duro Metal Products Company to bring you the greatest value in American Made, Quality hand tools.

Duro Metal Products Co. is a member or associate member of the various trade associations listed below:



American Hardware
Manufacturers Association



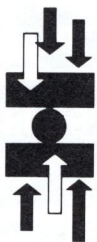
Automotive Service
Industry Association



American Supply & Machinery
Manufacturers Association



Automotive Warehouse
Distributors Association



Forging Industry
Association



Hand Tools Institute



Motor & Equipment
Manufacturers Association



Specialty Tools & Fasteners
Distributors Association

Throughout the catalog reference is made to ANSI or Federal specifications.

The ANSI specifications were written by the American National Standards Institute, under the sponsorship of the American Society of Mechanical Engineers.

Federal specifications were developed by General Services Administration to prescribe standard purchase specifications for use by Federal Agencies.



HAMMERS

Ball Peen—For striking chisels and punches • Riveting and shaping un-hardened metal.

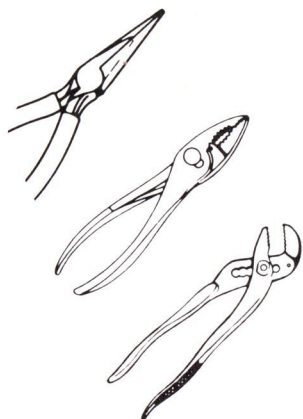
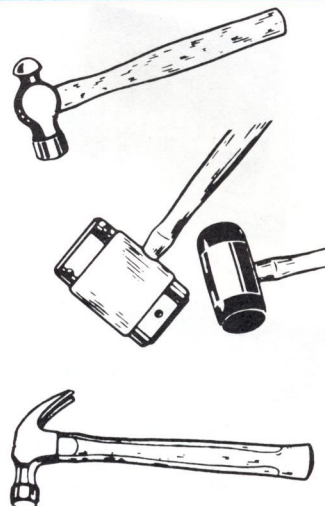
Soft Face—Used where steel hammers will mark or damage work.

Body and Fender—Used only for repairing metal of automobiles.

Claw—For driving nail set, common and finishing nails • Claw for pulling same and ripping woodwork.

Blacksmith—For striking metal, heavy timber, etc. Peen for shaping or bending unhardened metal.

NEVER USE A HAMMER AGAINST A HAMMER
DISCARD ANY DAMAGED HAMMER
 • ALWAYS USE EYE PROTECTION •
REPAIR OR REPLACE HANDLES WHEN LOOSE



PLIERS

Lineman's—For the professional working in Electrical, Communication and Construction.

Long Nose—Unlimited uses. Never bend stiff wire or pry with the tip.

Diagonal—For cutting and skinning wire, cutting and removing cotter pin, nails and other fasteners.

Slip Joint—For a wide range of work involving gripping, turning and bending.

Utility—Capable of applying limited torque on round, square, flat and hexagonal objects.

DO NOT ROCK PLIERS FROM SIDE TO SIDE, CUT AT RIGHT ANGLES
 • WEAR SAFETY GOGGLES •

SCREWDRIVERS

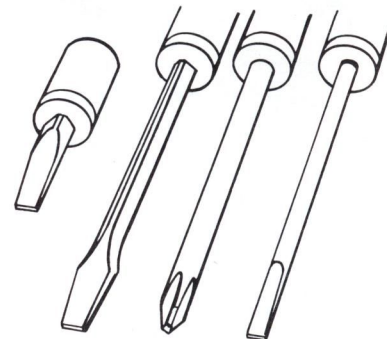
Stubby—For working in close quarters.

Square Shank—Use when wrench is needed for stubborn screws.

Phillips—For Phillip screws • Choose correct size.

Round Shank—To reach or drive screws in deep counterbored holes.

DO NOT USE NEAR LIVE WIRE OR USE AS A CHISEL OR PUNCH
 • PROTECT YOUR EYE'S WITH SAFETY GOGGLES •
CHOOSE THE CORRECT SIZED TIP TO FIT THE SLOT SNUGGLY



WRENCHES

Open End—Never use to free a frozen nut • Generally used for speed.

Box—Described as one of the safest • Use for final tightening or loosening.

Sockets—Described as one of the safest • Never use with Power Tools unless designed as impact socket.

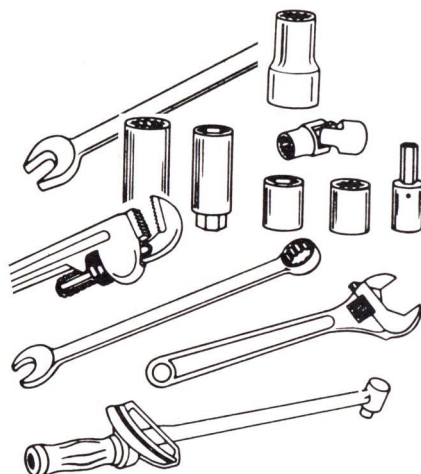
Combination—Designed for a wide variety of work • Combine features of Open End and Box Wrench.

Adjustable—Always keep tight around nut • Not for final tightening.

Pipe—Always maintain a gap between the back of the hook, jaw and the Pipe.

Torque—Only used where proper torquing is critical.

NEVER USE A PIPE OR MAKESHIFT EXTENSION WITH THE ABOVE
ALWAYS MAINTAIN BALANCE WHEN USING WRENCHES





1



7608



7610



7622M



7623M



7609



7607A



7624M

Set #7608 16 PIECES WITH BOX-REG. LENGTH SOCKETS

6 Pt. Sockets	2810	5/16"	8 Pt. Sockets	2832	2" Extension
2806	3/16"	2811	11/32"	2873	6" Spinner Handle
2807	7/32"	2812	3/8"	2875A	Reversible Ratchet
2808	1/4"	2814	7/16"	9702	Metal Box
2809	9/32"	2816	1/2"		

Std. Pkg. 1 — Pkg. Wt. 1.41 Lbs.

Set #7610 22 PIECES WITH BOX-REG. & DEEP SOCKETS

6 Pt. Sockets	2811	11/32"	2809D	9/32"	2832	2" Extension	
2806	3/16"	2812	3/8"	2810D	5/16"	2833	6" Extension
2807	7/32"	2814	7/16"	2811D	11/32"	2836	Universal Joint
2808	1/4"	2816	1/2"	2812D	3/8"	2873	6" Spinner Handle
2809	9/32"	6 Pt. Deep Sockets	2814D	7/16"	2875A	Reversible Ratchet	
2810	5/16"	2808D	1/4"	2816D	1/2"	9707	Metal Box

Std. Pkg. 1 — Pkg. Wt. 2.37 Lbs.

Set #7622M 15 PIECES WITH BOX-METRIC REG. SOCKETS

6 Pt. Sockets	2886	6mm	2890	10mm	2833	6" Extension	
2883	4mm	2887	7mm	2891	11mm	2873	6" Spinner Handle
2884	5mm	2888	8mm	2892	12mm	2875A	Reversible Ratchet
2885	5.5mm	2889	9mm	2893	13mm	9702	Metal Box

Std. Pkg. 1 — Pkg. Wt. 1.47 Lbs.

Set #7623M 22 PIECES WITH BOX-METRIC REG. & DEEP SOCKETS

6 Pt. Sockets	2889	9mm	2888D	8mm	2833	6" Extension	
2883	4mm	2890	10mm	2889D	9mm	2836	Universal Joint
2884	5mm	2891	11mm	2890D	10mm	2873	6" Spinner Handle
2885	5.5mm	2892	12mm	2891D	11mm	2875A	Reversible Ratchet
2886	6mm	6 Pt. Deep Sockets	2892D	12mm	9707	Metal Box	
2887	7mm	2886D	6mm				
2888	8mm	2887D	7mm				

Std. Pkg. 1 — Pkg. Wt. 2.32 Lbs.

Set #7609 7 PIECES 12 PT. DEEP SOCKETS

2808TD	1/4"	2811TD	11/32"	2816TD	1/2"	9851	6" Rail
2809TD	9/32"	2812TD	3/8"			9850-2	1/4" Clips (7)
2810TD	5/16"	2814TD	7/16"				

Std. Pkg. 1 — Pkg. Wt. 0.59 Lb.

Set #7607A 9 PIECES 6 PT. DEEP SOCKETS

2806D	3/16"	2809D	9/32"	2812D	3/8"	9851	6" Rail
2807D	7/32"	2810D	5/16"	2814D	7/16"	9850-2	1/4" Clips (9)
2808D	1/4"	2811D	11/32"	2816D	1/2"		

Std. Pkg. 1 — Pkg. Wt. 0.71 Lb.

Set #7624M 9 PIECES 6 PT. METRIC DEEP SOCKETS

2886D	6mm	2889D	9mm	2892D	12mm	9851	6" Rail
2887D	7mm	2890D	10mm	2893D	13mm	9850-2	1/4" Clips (9)
2888D	8mm	2891D	11mm	2894D	14mm		

Std. Pkg. 1 — Pkg. Wt. 0.71 Lb.



Set #7723 18 PIECES WITH BOX-REG. LENGTH SOCKETS

1/4" Dr. 6 Pt. Skts.	2810	5/16"	2716H	1/2"	491	1/4" M x 3/8" F
2806	3/16"	2811	11/32"	2718H	9/16"	Adaptor
2807	7/32"	3/8" Dr. 6 Pt. Skts.	2720H	5/8"	2873	1/4" Drive 6"
2808	1/4"	2712H	3/8"	2722H	11/16"	Spinner Handle
2809	9/32"	2714H	7/16"	2724H	3/4"	2730 3/8" Drive 3" Ext.
					2775A	3/8" Drive
					9722	Reversible Ratchet Metal Box

Std. Pkg. 1 — Pkg. Wt. 2.88 Lbs.

Set #7715 12 PIECES WITH BOX-REG. LENGTH SOCKETS

Ø Pt. Sockets	2718H	9/16"	2726H	13/16"	2730	3" Extension
2712H	3/8"	2720H	5/8"	2728H	7/8"	2775A Reversible Ratchet Metal Box
2714H	7/16"	2722H	11/16"	9722		
2716H	1/2"	2724H	3/4"			

Std. Pkg. 1 — Pkg. Wt. 2.78 Lbs.

Set #7720 21 PIECES WITH BOX-REG. & DEEP SOCKETS

6 Pt. Sockets	2722H	11/16"	2742H	7/16"	2748H	13/16"
2712H	3/8"	2724H	3/4"	2743H	1/2"	2730 3" Extension
2714H	7/16"	2726H	13/16"	2744H	9/16"	2733 6" Extension
2716H	1/2"	2728H	7/8"	2745H	5/8"	2775A Reversible Ratchet Metal Box
2718H	9/16"	6 Pt. Deep Socket	2746H	11/16"	9724	
2720H	5/8"	2741H	3/8"	2747H	3/4"	

Std. Pkg. 1 — Pkg. wt. 5.85 Lbs.

Set #7780M 18 PIECES WITH BOX-METRIC REG. LENGTH SOCKETS

1/4" Dr. 6 Pt. Skts.	2887	7mm	46012	12mm	491	1/4" M x 3/8" F
2883	4mm	2888	8mm	46013	13mm	Adaptor
2884	5mm	2889	9mm	46014	14mm	2873 1/4" Drive 6"
2885	5.5mm	3/8" Dr. 12 Pt. Skts.	46015	15mm	2730	Spinner Handle
2886	6mm	46010	10mm	46017	17mm	2775A 3/8" Drive
					9722	Reversible Ratchet Metal Box

Std. Pkg. 1 — Pkg. Wt. 2.66 Lbs.

Set #7777M 12 PIECES WITH BOX-METRIC REG. LENGTH SOCKETS

6 Pt. Sockets	12 Pt. Sockets	46013	13mm	2730	3" Extension
46008	8mm	46010	10mm	2775A	Reversible Ratchet
46009	9mm	46011	11mm	9722	Metal Box
		46012	12mm		

Std. Pkg. 1 — Pkg. Wt. 2.46 Lbs.

Set #7779M 21 PIECES WITH BOX-METRIC REG. & DEEP SOCKETS

6 Pt. Sockets	46012	12mm	6 Pt. Deep Sockets	2730	3" Extension
46007	7mm	46013	13mm	2775A	Reversible Ratchet
46008	8mm	46014	14mm	9724	Metal Box
46009	9mm	46015	15mm		
12 Pt. Sockets	46016	16mm	46013HD	13mm	
46010	10mm	46017	17mm	46012HD	12mm
46011	11mm			46014HD	14mm
				46015HD	15mm
				46017HD	17mm

Std. Pkg. 1 — Pkg. Wt. 4.63 Lbs.



7723



7715



7720



7780M



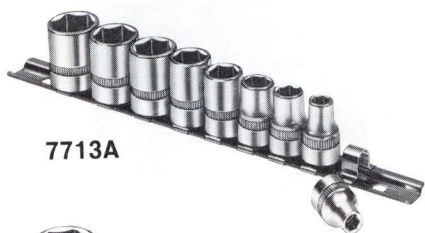
7777M



7779M



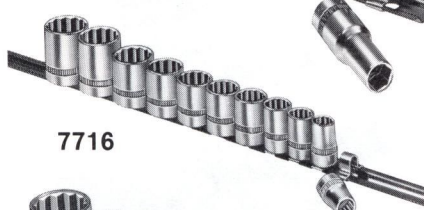
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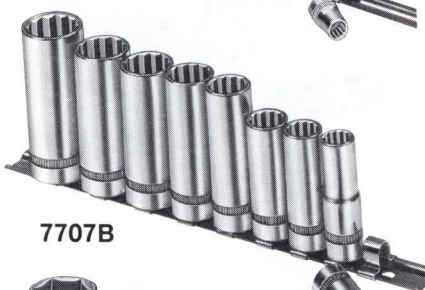
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7708A



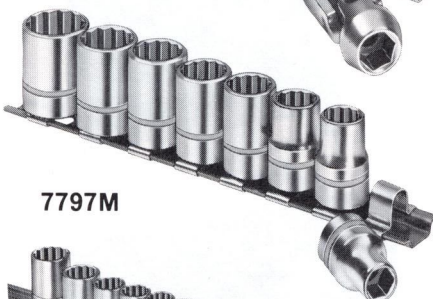
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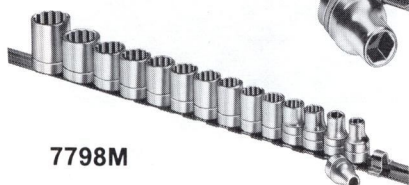
7707B



7709B



7797M



7798M

Set #7713A 9 PIECES 6 PT. REG. LENGTH SOCKETS

2708H	1/4"	2714H	7/16"	2720H	5/8"	9852	9" Rail
2710H	5/16"	2716H	1/2"	2722H	11/16"	9850-3	3/8" Clips (9)
2712H	3/8"	2718H	9/16"	2724H	3/4"		

Std. Pkg. 1—Pkg. Wt. 0.83 Lb.

Set #7708A 9 PIECES 6 PT. DEEP SOCKETS

2741H	3/8"	2744H	9/16"	2747H	3/4"	9852	9" Rail
2742H	7/16"	2745H	5/8"	2748H	13/16"	9850-3	3/8" Clips (9)
2743H	1/2"	2746H	11/16"	2749H	7/8"		

Std. Pkg. 1—Pkg. Wt. 2.12 Lbs.

Set #7716 11 PIECES 12 PT. REG. LENGTH SOCKETS

2712	3/8"	2720	5/8"	2728	7/8"	9853	17" Rail
2714	7/16"	2722	11/16"	2729A	15/16"	9850-3	3/8" Clips (11)
2716	1/2"	2724	3/4"	2729B	1"		
2718	9/16"	2726	13/16"				

Std. Pkg. 1—Pkg. Wt. 1.72 Lbs.

Set #7707B 9 PIECES 6 PT. & 12 PT. DEEP SOCKETS

6 Pt. Sockets	2743	1/2"	2747	3/4"	9852	9" Rail
2741H 3/8"	2744	9/16"	2748	13/16"	9850-3	3/8" Clips (9)
12 Pt. Sockets	2745	5/8"	2749	7/8"		
2742 7/16"	2746	11/16"				

Std. Pkg. 1—Pkg. Wt. 1.99 Lbs.

Set #7709B 7 PIECES 6 PT. UNIVERSAL JOINT SOCKETS

2712UV	3/8"	2718UV	9/16"	2724UV	3/4"	9851	6" Rail
2714UV	7/16"	2720UV	5/8"			9850-3	3/8" Clips (7)
2716UV	1/2"	2722UV	11/16"				

Std. Pkg. 1—Pkg. Wt. .97 Lb.

Set #7797M

8 PIECES 6 PT. & 12 PT. METRIC REG. LENGTH SOCKETS

6 Pt. Sockets	46011	11mm	46015	15mm	9851	6" Rail
46008 8mm	46012	12mm	46017	17mm	9850-3	3/8" Clips (8)
12 Pt. Sockets	46013	13mm				
46010 10mm	46014	14mm				

Std. Pkg. 1—Pkg. Wt. 0.63 Lb.

Set #7798M

15 PIECES 6 PT. & 12 PT. METRIC REG. LENGTH SOCKETS

6 Pt. Sockets	12 Pt. Sockets	46014	14mm	46019	19mm
46007	7mm	46010	10mm	46022	22mm
46008	8mm	46011	11mm	46024	24mm
46009	9mm	46012	12mm	9835	17" Rail
		46013	13mm	46018	18mm
				9850-3	3/8" Clips (15)

Std. Pkg. 1—Pkg. Wt. 1.67 Lbs.



Set #7791M 11 PIECES 6 PT. METRIC DEEP SOCKETS

46009HD	9mm	46013HD	13mm	46017HD	17mm	9852	9" Rail
46010HD	10mm	46014HD	14mm	46018HD	18mm	9850-3	3/8" Clips (11)
46011HD	11mm	46015HD	15mm	46019HD	19mm		
46012HD	12mm	46016HD	16mm				

Std. Pkg. 1 — Pkg. Wt. 1.98 Lbs.

Set #7775M 7 PIECES 6 PT. METRIC UNIVERSAL JOINT SOCKETS

410UV	10mm	413UV	13mm	417UV	17mm	9851	6" Rail
411UV	11mm	414UV	14mm			9850-3	3/8" Clips (7)
412UV	12mm	415UV	15mm				

Std. Pkg. 1 — Pkg. Wt. 0.91 Lb.

Set #401 9 PIECES TORX SOCKETS

1/4" Dr. Sockets	408	E8	612	E12	9851	6" Rail	
405	E5	410	E10	614	E14	9850-2	1/4" Clips (5)
406	E6	3/8" Dr. Sockets	616	E16	9850-3	3/8" Clips (4)	
407	E7	610	E10				

Std. Pkg. 1 — Pkg. Wt. 0.70 Lb.

Set #503 10 PIECES TORX ADAPTORS

3/8" Dr. Adaptors	546T	T25	566T	T45	9852	9" Rail	
540T	T10	548T	T27	568T	T50	9850-3	3/8" Clips (10)
542T	T15	550T	T30	570T	T55		
544T	T20	564T	T40				

Std. Pkg. 1 — Pkg. Wt. 0.88 Lb.

Set #7735 6 PIECES SCREWDRIVER ADAPTORS

3/8" Dr. Phillips Tip	2753	#3	3/8" Dr. Slotted Tip	9851	6" Rail
2751 #1	2754	#4	2761 1/4"	9850-3	3/8" Clips (6)
2752 #2			2762 3/8"		

Std. Pkg. 1 — Pkg. Wt. 0.68 Lb.

Set #7733A 7 PIECES HEX KEY ADAPTORS

3/8" Dr. Adaptors	2756	3/16"	2759	5/16"	9851	6" Rail
2755A 1/8"	2757	7/32"	2760	3/8"	9850-3	3/8" Clips (7)
2755 5/32"	2758	1/4"				

Std. Pkg. 1 — Pkg. Wt. 0.63 Lb.

Set #7776M 5 PIECES METRIC HEX KEY ADAPTORS

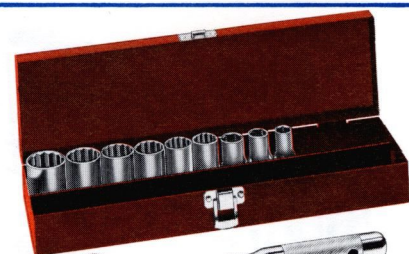
3/8" Dr. Adaptors	4005	5mm	4008	8mm	9851	6" Rail
4004	4mm	4006	6mm	4010	10mm	9850-3
						3/8" Clips (5)

Std. Pkg. 1 — Pkg. Wt. 0.49 Lb.





1



7811



7828



7836



7888M



7876M

Set #7811 12 PIECES WITH BOX-REG. LENGTH SOCKETS

6 Pt. Sockets	12 Pt. Sockets	1226	13/16"	3216	6" Extension
1214H 7/16"	1220 5/8"	1228	7/8"	3275A	Reversible Ratchet
1216H 1/2"	1222 11/16"	1230	15/16"	9962	Metal Box
1218H 9/16"	1224 3/4"				

Std. Pkg. 1 — Pkg. Wt. 5.11 Lbs.

Set #7828 17 PIECES WITH BOX-REG. LENGTH SOCKETS

6 Pt. Sockets	1222	11/16"	1234	1 1/16"	3216	6" Extension
1214H 7/16"	1224	3/4"	1236	1 1/8"	3222	15 1/2" Swing
1216H 1/2"	1226	13/16"	1240	1 1/4"		Head Handle
1218H 9/16"	1228	7/8"			3275A	Reversible Ratchet
12 Pt. Sockets	1230	15/16"			9725	Metal Box
1220 5/8"	1632	1"				

Std. Pkg. 1 — Pkg. Wt. 8.62 Lbs.

Set #7836 24 PIECES WITH BOX-REG. LENGTH SOCKETS

12 Pt. Sockets	1226	13/16"	1242	1 5/16"	3216	6" Extension
1214 7/16"	1228	7/8"	1244	1 3/8"	3211	10" Extension
1216 1/2"	1230	15/16"	1246	1 7/16"	3223	18" Swing
1218 9/16"	1232	1"	1248	1 1/2"		Head Handle
1220 5/8"	1234	1 1/16"			3217	Universal Joint
1222 11/16"	1236	1 1/8"			3208	Speeder Handle
1224 3/4"	1240	1 1/4"			3275A	Reversible Ratchet
					9967	Metal Box

Std. Pkg. 1 — Pkg. Wt. 21.86 Lbs.

Set #7888M

12 PIECES WITH BOX-METRIC REG. LENGTH SOCKETS

12 Pt. Sockets	47013	13mm	47017	17mm	3216	6" Extension
47010 10mm	47014	14mm	47019	19mm	3275A	Reversible Ratchet
47011 11mm	47015	15mm			9962	Metal Box
47012 12mm	47016	16mm				

Std. Pkg. 1 — Pkg. Wt. 5.05 Lbs.

Set #7876M

17 PIECES WITH BOX-METRIC REG. LENGTH SOCKETS

12 Pt. Sockets	47014	14mm	47019	19mm	3216	6" Extension
47010 10mm	47015	15mm	47022	22mm	3222	15 1/2" Swing Head
47011 11mm	47016	16mm	47023	23mm		Handle
47012 12mm	47017	17mm	47024	24mm	3275A	Reversible Ratchet
47013 13mm	47018	18mm			9725	Metal Box

Std. Pkg. 1 — Pkg. Wt. 7.52 Lbs.



Set #7812 13 PIECES 12 PT. REG. LENGTH SOCKETS

1214	7/16"	1222	11/16"	1230	15/16"	1240	1 1/4"
1216	1/2"	1224	3/4"	1232	1"	9853	17" Rail
1218	9/16"	1226	13/16"	1234	1 1/16"	9850-4	1/2" Clips (13)
1220	5/8"	1228	7/8"	1236	1 1/8"		

Std. Pkg. 1 — Pkg. Wt. 3.62 Lbs.

Set #7813 13 PIECES 6 PT. REG. LENGTH SOCKETS

1214H	7/16"	1222H	11/16"	1230H	15/16"	1240H	1 1/4"
1216H	1/2"	1224H	3/4"	1232H	1"	9853	17" Rail
1218H	9/16"	1226H	13/16"	1234H	1 1/16"	9850-4	1/2" Clips (13)
1220H	5/8"	1228H	7/8"	1236H	1 1/8"		

Std. Pkg. 1 — Pkg. Wt. 3.79 Lbs.

Set #7822A 9 PIECES 12 PT. DEEP SOCKETS

3016	1/2"	3022	1 1/16"	3028	7/8"	9853	17" Rail
3018	9/16"	3024	3/4"	3030	15/16"	9850-4	1/2" Clips (9)
3020	5/8"	3026	13/16"	3032	1"		

Std. Pkg. 1 — Pkg. Wt. 3.89 Lbs.

Set #7823A 9 PIECES 6 PT. DEEP SOCKETS

3016H	1/2"	3022H	1 1/16"	3028H	7/8"	9853	17" Rail
3018H	9/16"	3024H	3/4"	3030H	15/16"	9850-4	1/2" Clips (9)
3020H	5/8"	3026H	13/16"	3032H	1"		

Std. Pkg. 1 — Pkg. Wt. 4.01 Lbs.

Set #7889M 9 PIECES 12 PT. METRIC REG. LENGTH SOCKETS

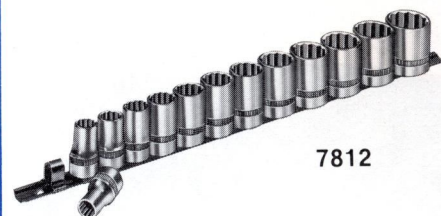
47010	10mm	47013	13mm	47016	16mm	9852	9" Rail
47011	11mm	47014	14mm	47017	17mm	9850-4	1/2" Clips (9)
47012	12mm	47015	15mm	47018	18mm		

Std. Pkg. 1 — Pkg. Wt. 1.26 Lbs.

Set #7890M 13 PIECES 12 PT. METRIC REG. LENGTH SOCKETS

47019	19mm	47024	24mm	47029	29mm	9853	17" Rail
47020	20mm	47025	25mm	47030	30mm	9850-4	1/2" Clips (13)
47021	21mm	47026	26mm	47032	32mm		
47022	22mm	47027	27mm				
47023	23mm	47028	28mm				

Std. Pkg. 1 — Pkg. Wt. 4.68 Lbs.



7812



7813



7822A



7823A



7889M



7890M



1



7902



7903



7904

Set #7902 12 PIECES WITH BOX

12 Pt. Sockets	2240	1¼"	2248	1½"	2364	8" Extension
2230 15⁄16"	2242	15⁄16"	2252	15⁄8"	2363	18" Slide T Handle
2234 1⅛"	2244	13⁄8"			9827	Metal Box
2236 1⅞"	2246	17⁄16"				

Std. Pkg. 1—Pkg. Wt. 20.12 Lbs.

Std. Pkg. 1—Pkg. Wt. 20.12 Lbs.

Set #7903 18 PIECES WITH BOX

12 Pt. Sockets	2242	1 5/16"	2254	1 11/16"	2364	8" Extension	
2230	1 5/16"	2244	1 3/8"	2256	1 3/4"	2365	16" Extension
2234	1 1/16"	2246	1 7/16"	2260	1 7/8"	2363	18" Slide T Handle
2236	1 1/8"	2248	1 1/2"	2264	2"	2372	Reversible Ratchet
2240	1 1/4"	2252	1 5/8"			9827	Metal Box

Std. Pkg. 1—Pkg. Wt. 36.15 Lbs.

Set #7904 26 PIECES WITH BOX

12 Pt. Sockets	2240	1¼"	2256	1¾"	2362	4" Extension	
2228	⅞"	2242	1⅝"	2258	1⅜"	2364	8" Extension
2230	15⁄16"	2244	1⅜"	2260	1⅞"	2365	16" Extension
2232	1"	2246	1⅞"	2264	2"	2366A	19" Swing Head
2234	1⅛"	2248	1½"	2268	2⅞"		Handle
2236	1⅝"	2252	1⅝"	2270	2⅜"	2372	Reversible Ratchet
2238	1⅜"	2254	1⅞"	2272	2¼"	9827	Metal Box

Std. Pkg. 1—Pkg. Wt. 50.25 Lbs.



Set #7950 23 PIECES (ORDER BOX SEPARATELY)

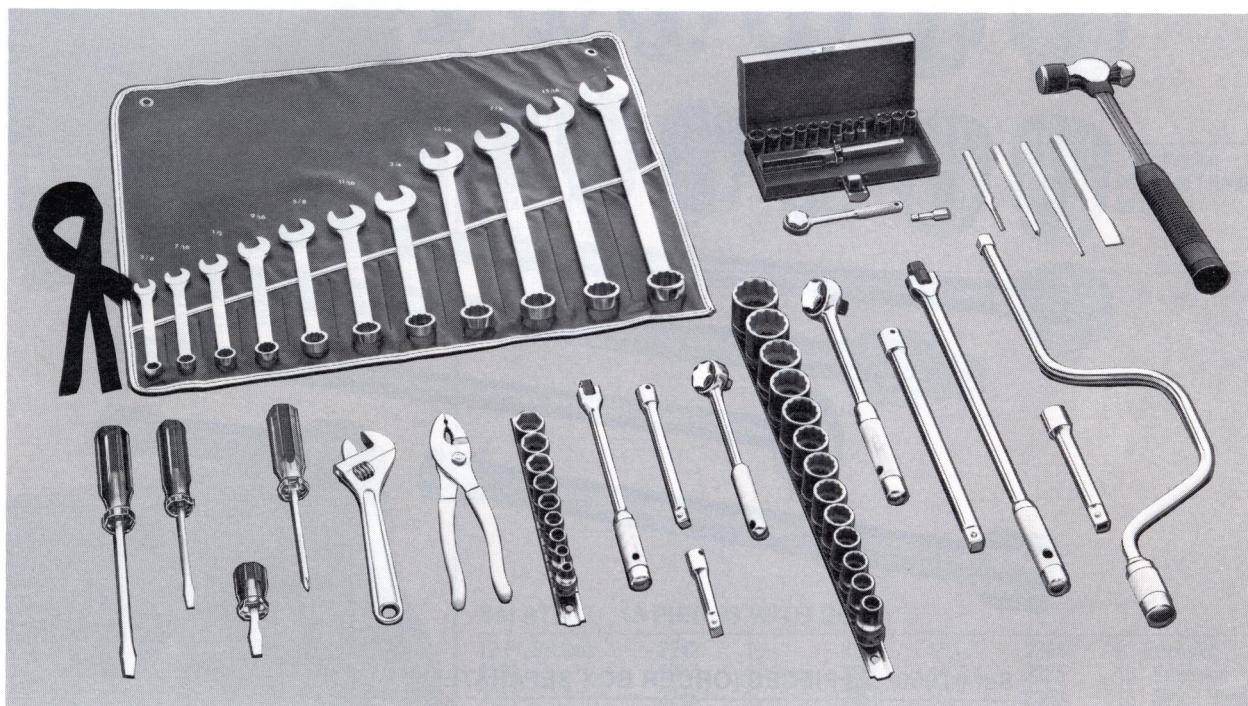
12 Pt. Sockets	12064	2"	12084	2 ⁵ / ₈ "	12008	8" Extension	
12046	1 ⁷ / ₁₆ "	12068	2 ¹ / ₈ "	12088	2 ³ / ₄ "	12017	17" Extension
12048	1 ¹ / ₂ "	12070	2 ³ / ₁₆ "	12094	2 ¹⁵ / ₁₆ "	12015	Swing Head Handle
12052	1 ⁵ / ₈ "	12072	2 ¹ / ₄ "	12096	3"	12020	Slide T Handle
12054	1 ¹¹ / ₁₆ "	12076	2 ³ / ₈ "	12100	3 ¹ / ₈ "	12010	Reversible Ratchet
12058	1 ¹³ / ₁₆ "	12080	2 ¹ / ₂ "				
12060	1 ⁷ / ₈ "	12082	2 ⁹ / ₁₆ "				
Std. Pkg. 1 — Pkg. Wt. 74.70 Lbs.							

Std. Pkg. 1—Pkg. Wt. 74.70 Lbs.



No. 9961 HEAVY DUTY TOOL BOX

This box is designed with sturdy side handles and a center partition to hold the 1" drive set. Constructed from heavy gauge steel with a hasp and two latches for extra strength and added security. Size: 31"L x 9¹/₂"W x 5³/₄"H.
Std. Pkg. 1—Pkg. Wt. 23.38 Lbs.



SET #7838 69 PIECE TOOL SET

1/4" DRIVE

6 Pt. Sockets		Attachments	
2806	3/16"	2812	3/8"
2807	7/32"	2814	7/16"
2808	1/4"	2816	1/2"
2809	9/32"	8 Pt. Sockets	
2810	5/16"	2808S	1/4"
2811	11/32"	2810S	5/16"
		2812S	3/8"
		2832	2" Extension
		2873	6" Spinner Handle
		2875A	Reversible Ratchet
		9702	Metal Box

3/8" DRIVE

6 Pt. Sockets		Attachments	
2708H	1/4"	2716H	1/2"
2710H	5/16"	2718H	9/16"
2712H	3/8"	2720H	5/8"
2714H	7/16"	2722H	11/16"
		2724H	3/4"
		2730	3" Extension
		2733	6" Extension
		2781	9" Swing Head Handle
		2775A	Reversible Ratchet

1/2" DRIVE

12 Pt. Sockets		Attachments	
1214	7/16"	1226	13/16"
1216	1/2"	1228	7/8"
1218	9/16"	1230	15/16"
1220	5/8"	1232	1"
1222	11/16"	1234	1 1/16"
1224	3/4"	1236	1 1/8"
		1240	1 1/4"
		3216	6" Extension
		3211	10" Extension
		3208	17 5/8" Speeder
		3222	15 1/2" Swing Head Handle
		3275A	Reversible Ratchet

WRENCHES

Combination (Short)		Combination (Long)	
771S	3/8"	777B	1 3/16"
772S	7/16"	778	7/8"
773S	1/2"	779	1 5/16"
774S	9/16"	780	1"
775S	5/8"		
776S	1 1/16"		
777S	3/4"		

SCREWDRIVERS

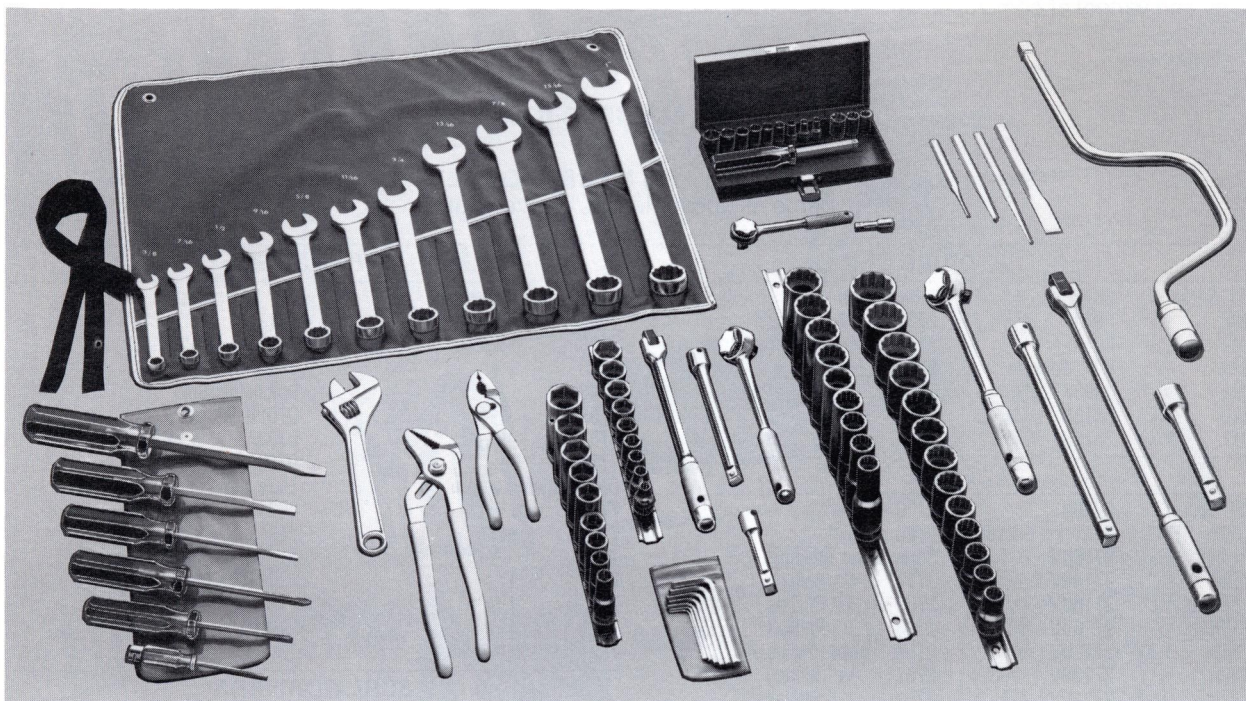
Square Blade		Phillips	
3714	3/16" x 4"	4682	#2
3726	1/4" x 6"		
3721	1/4" x 1 1/4"		

MISCELLANEOUS

980-16B	16 oz.	Ball Peen Hammer	1971	5" Center Punch
1902	5/8"	Cold Chisel	2087A	8" Adjustable Wrench
1940	3/32"	Pin Punch	2097A	8" Slip Joint Plier
1951	1/8"	Long Taper Punch		

Std. Pkg. 1. Pkg. Wt. 21.44 Lbs.

To use your new tool set more efficiently and conveniently, select the appropriate tool box or cabinet. See our full assortment on pages 16, 17 & 18.



SET #7839 97 PIECE TOOL SET

1/4" DRIVE

6 Pt. Sockets	2812	3/8"	Attachments		
2806	3/16"	2814	7/16"	2832	2" Extension
2807	7/32"	2816	1/2"	2873	6" Spinner Handle
2808	1/4"	8 Pt. Sockets	2875A	Reversible Ratchet	
2809	9/32"	2808S	1/4"	9702	Metal Box
2810	5/16"	2810S	5/16"		
2811	11/32"	2812S	3/8"		

3/8" DRIVE

6 Pt. Sockets	2724H	3/4"	2748H	13/16"	
2708H	1/4"	6 Pt. Deep Sockets	2749H	7/8"	
2710H	5/16"	2741H	3/8"		
2712H	3/8"	2742H	7/16"	Attachments	
2714H	7/16"	2743H	1/2"	2730	3" Extension
2716H	1/2"	2744H	9/16"	2733	6" Extension
2718H	5/16"	2745H	5/8"	2781	9" Swing Head Handle
2720H	5/8"	2746H	11/16"	2775A	Reversible Ratchet
2722H	11/16"	2747H	3/4"		

1/2" DRIVE

12 Pt. Sockets	1232	1"	3026	13/16"	
1214	7/16"	1234	1 1/16"	3028	7/8"
1216	1/2"	1236	1 1/8"	3030	15/16"
1218	9/16"	1240	1 1/4"	3032	1"
1220	5/8"	12 Pt. Deep Sockets			
1222	11/16"	3016	1/2"	Attachments	
1224	3/4"	3018	9/16"	3216	6" Extension
1226	13/16"	3020	5/8"	3211	10" Extension
1228	7/8"	3022	1 1/16"	3208	17 7/8" Speeder
1230	15/16"	3024	3/4"	3222	15 1/2" Swing Head Handle
				3275A	Reversible Ratchet

WRENCHES

Combination (Short)		Combination (Long)	
771S	3/8"	777B	13/16"
772S	7/16"	778	7/8"
773S	1/2"	779	15/16"
774S	9/16"	780	1"
775S	5/8"		
776S	11/16"		
777S	3/4"		

SCREWDRIVERS

Slotted		Phillips	
136	1/8" x 2"	4681	#1
3614	3/16" x 4"	4682	#2
3724	1/4" x 4"		
3736	5/16" x 6"		

MISCELLANEOUS

199A	7 Pc. Hex Key Set	1951	1/8" Long Taper Punch
	5/64" to 1/4"	1971	5" Center Punch
225	Feeler Gauge	2087A	8" Adjustable Wrench
1902	3/8" Cold Chisel	3442	10" Groove Joint Pliers
1940	3/32" Pin Punch	2096A	6" Slip Joint Pliers

Std. Pkg. — 1 Pkg. Wt. 27.57 Lbs.



A complete set of the tools necessary to do the job better, faster and with less effort. Each tool is designed for its particular job—perfectly matched and balanced for precision work. The selection of tools furnishes the utmost in utility and variety of combinations.

SET #7926 217 PIECE TOOL SET

SET # 7927 198 PIECE TOOL SET

(Same as above, less 3/4" Drive Tools)

1/4" DRIVE

6 Pt. Sockets	2812	3/8"	Attachments
2806	3/16"	2814	2" Extension
2807	7/32"	2816	6" Spinner Handle
2808	1/4"	8 Pt. Sockets	2875A Reversible Ratchet
2809	9/32"	2808S	9702 Metal Box
2810	5/16"	2810S	
2811	11/32"	2812S	

3/8" DRIVE

6 Pt. Socket	2749H	7/8"	2759	5/16"
2708H	1/4"	Universal Sockets	2760	3/8"
2710H	5/16"	2712UV	Screwdriver Adaptors	
2712H	3/8"	2714UV	2751	#1 Phillips
2714H	7/16"	2716UV	2752	#2 Phillips
2716H	1/2"	2718UV	2753	#3 Phillips
2718H	9/16"	2720UV	2754	#4 Phillips
2720H	5/8"	2722UV	2761	1/4" Slotted
2722H	11/16"	2724UV	2762	3/8" Slotted
2724H	3/4"	Spark Plug Sockets		
6 Pt. Deep Skts.	2745HS	5/8"	Attachments	
2741H	3/8"	2747HS	2730	3" Extension
2742H	7/16"	2748HS	2733	6" Extension
2743H	1/2"	Hex Key Adaptors	2734	10" Extension
2744H	9/16"	2755A	2797	Universal Joint
2745H	5/8"	2755	2763	Slide T Handle
2746H	11/16"	2756	2781	9" Swing Head Handle
2747H	3/4"	2757	2785	16 1/2" Speeder
2748H	13/16"	2758	2775A	Reversible Ratchet

1/2" DRIVE

12 Pt. Sockets	1236	1 1/8"	3034	1 1/16"
1214	7/16"	1240	1 1/4"	3036
1216	1/2"	12 Pt. Deep Sockets	3040	1 1/4"
1218	9/16"	3016	1/2"	
1220	5/8"	3018	9/16"	Attachments
1222	11/16"	3020	5/8"	3216
1224	3/4"	3022	1 1/16"	3211
1226	13/16"	3024	3/4"	3218
1228	7/8"	3026	13/16"	3217
1230	15/16"	3028	7/8"	3208
1232	1"	3030	15/16"	3223
1234	1 1/16"	3032	1"	3275A

3/4" DRIVE

(Not included in set #5927)

12 Pt. Sockets	2248	1 1/2"	Attachments
2230	15/16"	2252	15/8"
2234	1 1/16"	2254	1 1/16"
2236	1 1/8"	2256	1 3/4"
2240	1 1/4"	2258	1 13/16"
2242	1 5/16"	2260	1 7/8"
2244	1 3/8"	2264	2"
2246	1 7/16"		

WRENCHES

Combination (Short)	45° Box (Short)
771S	741
772S	742
773S	743A
774S	Ratcheting Box
775S	0702A
776S	0703A
777S	0705A
Combination (Long)	Flare Nut
777B	368
778	369
779	370
780	
781	
782	
783	

SCREWDRIVERS

Square Blade	Phillips
3703	4681
3714	4682
3724	4683
3726	4684
3728	4689
3738	Offset
3749	4772
3721	4656-12
Clutch Head	Screw Starters
4640	4787
4641	4790
4642	

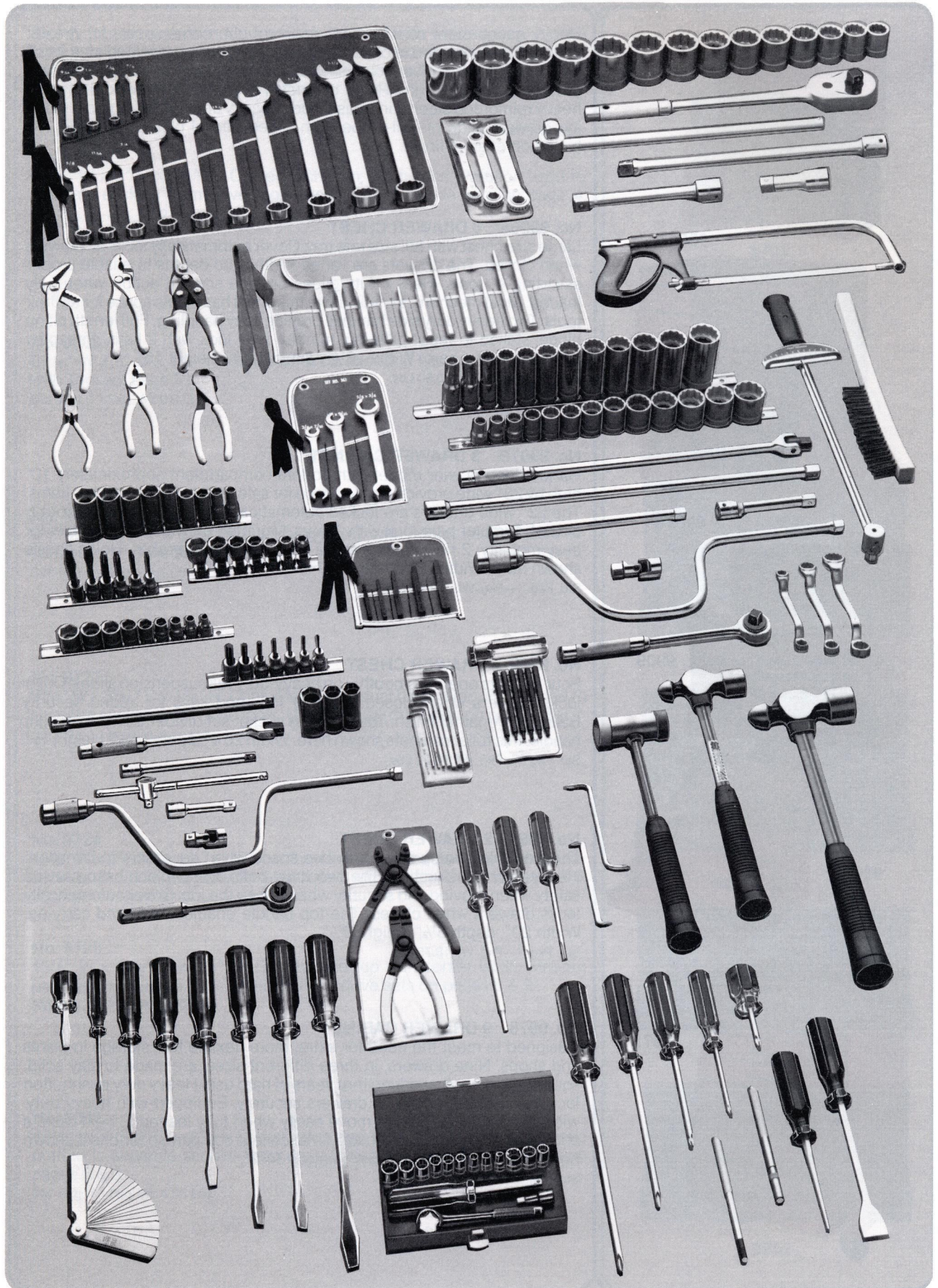
MISCELLANEOUS

191A	7 Pc. Hex Key Set	2117	Snap Ring Pliers Set
225	Master Feeler Gauge	2131	1-Internal 1-External
851	25 Blades .0015 to .035	2096A	Heavy Duty Cutting Pliers
1380	Wire Brush	2097A	6" Slip Joint Pliers
980-16B	5 Pc. Screw Extractor Set	2567	8" Slip Joint Pliers
980-32B	1/4" to 3/4" Fluted Type	2568	Awl
989	16 oz. Ball Peen Hammer	5403	Scraper
2545	32 oz. Ball Peen Hammer	501	Straight 10" Power Snips
3403A	16 oz. Soft Face Hammer		7 Pc. Torx Set
2111	11 Pc. Ignition Set	8095A	T10 to T30
	(not shown)		1/2" Dr. Torque Wrench
	Water Pump Pliers		150 Ft. Lbs.
	Long Nose Pliers	9035	Hacksaw
		19008	11 Pc. Punch & Chisel Set

7926 Std. Pkg. 1—Pkg. Wt. 104.55 Lbs.

7927 Std. Pkg. 1—Pkg. Wt. 77.78 lbs.

To use your new tool set more efficiently and conveniently, select the appropriate tool box or cabinet. See our full assortment on pages 16, 17 & 18.





9906A



9907B



9909



9958



9975

Heavy gauge steel construction, double width corner posts for greater rigidity. Flange welded at critical stress points increases welded area 2 to 3 times more than conventional seams. Cap-end construction keeps chest covers square and tight. Roller cabinets have one piece bottom of extra heavy reinforced steel to increase load capacity and rigidity. Smooth working drawers glide on full-suspension slides. Nickel plated hardware; red baked-on enamel finish.

No. 9906A 6 DRAWER CHEST

Large size chest with full size tote tray. Cover automatically locks all drawers when closed. The drawers are varied widths and depths to enable proper assorting of tools. Heavy duty glides provide smooth action when fully loaded. Most mechanics will find that this chest has ample space for all their tools. Two heavy duty side handles provide easy handling. Full length piano hinge, staked to resist pilfering; tumbler type lock with 2 keys. Fits roller cabinets shown here. Width 26 $\frac{1}{8}$ "; depth 12 $\frac{1}{8}$ "; height 15".

Std. Pkg. 1—Pkg. Wt. 60.50 Lbs.

No. 9907B 3 DRAWER CABINET

Handy deep drawer model with bottom compartment approximately 10" high by 23" wide provide ample space for safe storage of those large items. The 22" wide drawers are locked automatically when lower panel front is closed. Tumbler type lock with 2 keys. Mounted on wide-tread casters for easy mobility; 2 rigid casters and 2 that swivel, with brakes. Holds chests shown here. Width 26 $\frac{3}{8}$ "; depth 17 $\frac{3}{8}$ "; height 29".

Std. Pkg. 1—Pkg. Wt. 101.00 Lbs.

No. 9909 4 DRAWER CHEST

Four drawers operate smoothly on heavy-duty full suspension slides. Cover locks drawers when closed. Tumbler lock and keys for added security. Baked red enamel finish. Tote tray has socket set divider and comfort grip handle. Fits roller cabinets shown here. Width 26 $\frac{1}{8}$ "; depth 12 $\frac{1}{8}$ "; height 15".

Std. Pkg. 1—Pkg. Wt. 50.00 Lbs.

No. 9958 2 DRAWER CHEST

This portable, roomy chest provides space when necessary to transport. Heavy duty construction. The two draw bolts and padlock hasp provide safety when moving and security when left on the job. Cover automatically locks drawers when closed. The top handle enables one hand carrying. Width 20"; depth 8 $\frac{1}{2}$ "; height 9 $\frac{1}{2}$ ".

Std. Pkg. 1—Pkg. Wt. 18.75 Lbs.

No. 9975 9 DRAWER CABINET

Designed to meet the need for extra, more flexible tool storage in plants and shops. Nine drawers, in three different sizes, are made to stay solid, square and smooth-working thru years of hard use. Heavy duty pushbutton lock automatically locks all drawers securely. Equipped with heavy duty, wide-tread casters that will move easily when fully loaded; 2 rigid casters and 2 swivel casters with brake. An excellent companion for chest shown here. Width 26 $\frac{1}{2}$ "; depth 18 $\frac{1}{8}$ "; height 34 $\frac{3}{4}$ ".

Std. Pkg. 1—Pkg. Wt. 150.00 Lbs.



Sturdy tool boxes are made from quality steel with welded steel hinges for durability. Most have riveted chrome plated latches and flange welded partitions. All tool boxes, chests and cabinets are finished with a heavy, baked red enamel finish for a lifetime of service.

No. 9702

6¹³/₁₆" W x 3" D x 1¹/₄" H. Center latch with two hinges. Partition used to separate sockets from drive tools. Used with ¹/₄" drive sets on page 4. Std. Pkg. 1—Pkg. Wt. 0.66 Lb.

No. 9703

6¹³/₁₆" W x 3" D x 1¹/₄" H. Same as 9702 except it has no partition. Used with Torx set page 51. Std. Pkg. 1—Pkg. Wt. 0.66 Lb.

No. 9707

9³/₁₆" W x 3³/₁₆" D x 1⁷/₁₆" H. Dual hinged top with center latch. Used with complete ¹/₄" drive sets on page 4. Std. Pkg. 1—Pkg. Wt. 1.00 Lb.

No. 9722

9⁹/₁₆" W x 3⁹/₁₆" D x 1³/₈" H. Center latch with dual hinged top. Partitioned to separate sockets from drive tools. Used with ³/₈" drive sets on page 5, 6 & 7. Std. Pkg. 1—Pkg. Wt. 1.10 Lbs.

No. 9724

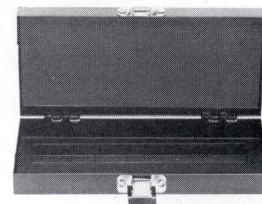
15⁷/₈" W x 4³/₁₆" D x 1⁷/₈" H. "Z" partition to accommodate deep and regular sockets. Dual hinged top with latch. Used with ³/₈" drive sets pages 5 & 6. Std. Pkg. 1—Pkg. Wt. 2.16 Lbs. (Not Shown)

No. 9725

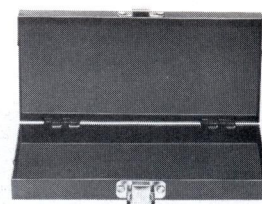
15⁷/₈" W x 4³/₁₆" D x 1⁷/₈" H. Dual hinged top with center latch. Straight partition to separate tools. Used with ¹/₂" drive sets on pages 8 & 9. Std. Pkg. 1—Pkg. Wt. 2.20 Lbs.

No. 9962

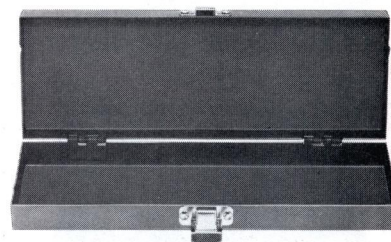
12¹/₄" W x 3³/₈" D x 2" H. Center latch and dual hinged top. Partitioned bottom to separate sockets from drive tools. Used with ¹/₂" drive sets on pages 8 & 9. Std. Pkg. 1—Pkg. Wt. 1.35 Lbs.



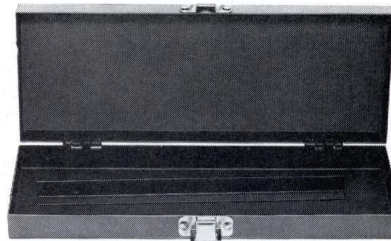
9702



9703



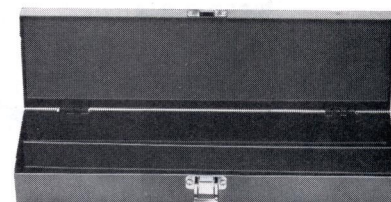
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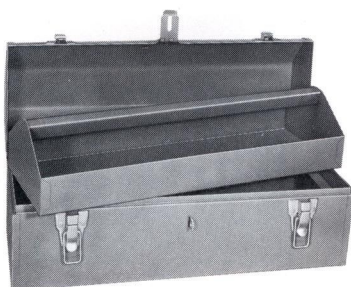
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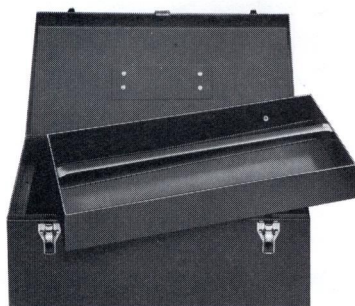
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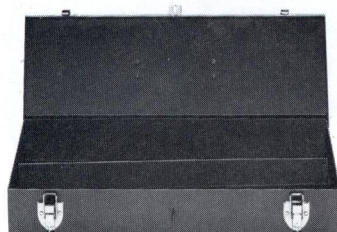
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9967



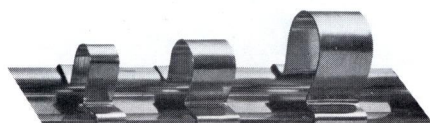
9946



9827



9961



9850-2-3-4



9851-9853

No. 9967 HIP ROOF TOOL BOX WITH TRAY

The versatile hip roof box construction is ideal for use in a car or shop. Handy tote tray with socket partition can be carried to the work. Steel flange welded design with continuous hinged top provides years of use. Top has center carry handle, dual draw pull latches and padlock hasp for security. Used with large 1/2" Drive Set on page 8. Size 19 3/4" W x 7" D x 8" H. Std. Pkg. 1—Pkg. Wt. 8 Lbs.

No. 9946 TOOL BOX WITH TRAY

This large tool box is great for holding a large number of tools. Deep well steel construction allows for storage while handy tote tray can be carried to the job. Continuous hinged top with draw pull latches and padlock hasp add security and durability. Flange welded box and tray measure 19 7/16" W x 8 3/4" D x 8 1/2" H. With top handle as used with body and fender set on page 55.

Std. Pkg. 1—Pkg. Wt. 12.50 Lbs.

No. 9827 HEAVY DUTY TOOL BOX

Ideal for use with large sized sockets and fittings. All steel construction and flange welded for heavy duty use. Center partition used to separate sockets and drive tools. Continuous hinge adds durability. Riveted draw pull latches and welded padlock hasp add security. Top handle provides mobility. Size 22 1/4" W x 7 1/16" D x 3 5/16" H. Used with 3/4" drive sets page 10.

Std. Pkg. 1—Pkg. Wt. 9.37 Lbs.

No. 9961 LARGE TOOL BOX

This box is an extra heavy duty box. Designed to store 1" Drive Tools. All steel construction with flange welds gives it the strength. Continuous hinged top has two riveted draw pull latches and a padlock hasp. Solid steel side handles allow this to be moved to where it is needed. Size 31" W x 9 1/2" D x 5 3/4" H. Recommended for use with the 1" Drive Set on page 11.

Std. Pkg. 1—Pkg. Wt. 23.38 Lbs.

SOCKET HOLDERS

These handy devices make tool box arrangement easy and neat. Mounting holes allow for tool box, wall mounting or carry them to the job. Unique clip design holds sockets and attachments securely and ready to use. Tracks are chrome plated, steel spring clips are nickel plated. Three lengths of tracks are available. Clips are in three sizes: 1/4", 3/8" & 1/2" and will work with any of three tracks listed below.

TRACK

9851 6" Track. Two mounting holes.

Std. Pkg. 6—Pkg. Wt. 0.43 Lb.

9852 9" Track. Two mounting holes.

Std. Pkg. 6—Pkg. Wt. 0.64 Lb.

9853 17" Track. Three mounting holes.

Std. Pkg. 6—Pkg. Wt. 1.20 Lbs.

CLIPS

9850-2 1/4" Drive clip.

Std. Pkg. 24—Pkg. Wt. .024 Lb.

9850-3 3/8" Drive clip.

Std. Pkg. 24—Pkg. Wt. .048 Lb.

9850-4 1/2" Drive clip.

Std. Pkg. 24—Pkg. Wt. .096 Lb.



No. 2871 REFRIGERATION RATCHET WRENCH

Female 1/4" square drive for use with valve stem and packing gland nut sockets on refrigeration units. Four size openings in handle: 3/16", 1/4" and 5/16" square; 9/16"—6 point for hexagon nuts and bolts. Ratchet mechanism is 24 tooth action. Reverses instantly by moving thumb control lever. Length 6 1/4".

Std. Pkg. 3—Pkg. Wt. 1.36 Lbs.

No. 2871-8 INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 2871 Refrigeration Ratchet. Complete instructions for removing and installing body assembly furnished with each unit.

Std. Pkg. 1—Pkg. Wt. 0.12 Lb.

No. 4493 DOUBLE MALE ADAPTOR—1/4" x 3/8"

For use with No. 2871 Reversible Ratchet to drive 3/8" square drive sockets and attachments.

Std. Pkg. 4—Pkg. Wt. 0.11 Lb.

No. 4517 RATCHET ADAPTOR PLUG—1/4" SQ. DRIVE

For use with No. 2871 Reversible Ratchet. Ball and spring at each end to lock into ratchet and socket. Head is knurled for easy removal. Lengths 7/8".

Std. Pkg. 4—Pkg. Wt. 0.07 Lb.

No. 2875A SOCKET MATE ROUND HEAD RATCHET†‡

Round head design with new six point cap allows for easy one hand reversing operation. Sixty precision teeth assures smooth ratcheting action with a new bite every 6°. One internal gear mechanism makes disassembly for cleaning easy and requires no special tools. Round, knurled handle provides a comfortable, non-slip grip. Length 5".

Std. Pkg. 3—Pkg. Wt. 0.65 Lb.

No. 2875A-8 INNER BODY ASSEMBLY

Designed to fit No. 2875A Socket Mate ratchet wrench. Replacement ratcheting mechanism comes complete with instructions for installing.

Std. Pkg. 1—Pkg. Wt. 0.12 Lb.

No. 6072 REVERSIBLE RATCHET†‡

Oval head design, 24 tooth ratcheting mechanism. Ratchet reverses instantly by turning thumb control lever. Round, knurled handle provides comfortable, non-slip grip. Length 5".

Std. Pkg. 3—Pkg. Wt. 0.96 Lb.

No. 6072-8 INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 6072 Reversible Ratchet. Complete instructions for removing and installing furnished with each unit.

Std. Pkg. 1—Pkg. Wt. 0.12 Lb.

No. 2880 "SLR 250" QUICK RELEASE, LOCKING RATCHET

Oval solid forged head design, 24 tooth ratcheting mechanism. Easy push-button release. Locking mechanism will hold sockets and fittings securely. Positive one thumb reversing action. Round, knurled handle provides comfortable non-slip grip. Length 5".

Std. Pkg. 4—Pkg. Wt. 1.40 Lbs.

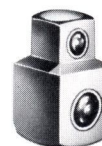
No. 4580-8 INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 2880 SLR Quick Release, Locking Ratchet. Complete instructions for removing and installing furnished with each unit.

Std. Pkg. 1—Pkg. Wt. 0.13 Lb.



2871



4493



4517



2875A



6072



2880



481



2836



2832



2833



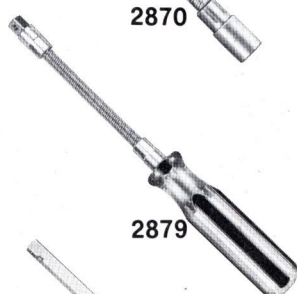
2850



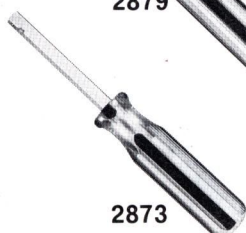
2869



2870



2879



2873

No. 481 ADAPTOR—1/4" Female x 3/8" Male†

Adapts 3/8" Square Drive Sockets for use with 1/4" Square Drive Attachments.

Std. Pkg. 4—Pkg. Wt. 0.13 Lb.

No. 2836 UNIVERSAL JOINT††

Handy attachment for turning nuts and bolts in hard-to-reach work areas. Spring loaded friction holds drive end in desired position. Overall length 1 5/16".

Std. Pkg. 3—Pkg. Wt. 0.13 Lb.

EXTENSIONS††

Two lengths of extension offered to meet different conditions.

No.	Size	Std. Pkg.	Pkg. Wt. Lbs.
2832	2" Length	4	0.34
2833	6" Length	4	0.36

No. 2850 SWING HEAD HANDLE††

Provides extra leverage needed to turn those stubborn nuts and bolts. Drive end swivels on steel pin; ball and spring tension hold drive end at desired angle. Oval Grip handle design. Length 6".

Std. Pkg. 4—Pkg. Wt. 0.62 Lb.

FLEXIBLE EXTENSIONS††

Very handy attachments to reach into areas where a regular extension cannot be used. Strong, laminated steel that flexes to desired angle, yet provides positive drive action.

No.	Size	Std. Pkg.	Pkg. Wt. Lbs.
2869	6" Length	4	0.42
2870	4" Length	4	0.33

No. 2879 SPIN-FLEX HANDLE†

This tool has a flexible shaft for reaching into areas that are otherwise inaccessible. Strong, laminated steel shaft that flexes to desired angle, yet provides positive drive action. Shock-proof handle. Length 7".

Std. Pkg. 4—Pkg. Wt. 0.73 Lb.

No. 2873 SPINNER HANDLE††

Used for spinning nuts on and off. Ideal for use in close quarters. Shock-proof handle. Length 6".

Std. Pkg. 4—Pkg. Wt. 0.62 Lb.



Made from FINE QUALITY STEEL and heat treated for extra strength. Polished to a mirror finish and completely plated in a rich deep chrome.

SOCKETS

REGULAR SOCKETS††

No.	Size	Length	Pkg. Wt. Lbs.
6 Point			
2806	3/16"	15/16"	0.13
2807	7/32"	15/16"	0.13
2808	1/4"	15/16"	0.13
2809	9/32"	15/16"	0.13
2810	5/16"	15/16"	0.13
2811	11/32"	15/16"	0.13
2812	3/8"	15/16"	0.25
2814	7/16"	15/16"	0.25
2816	1/2"	15/16"	0.25
Std. Pkg. 6			

8 Point

2808S	1/4"	15/16"	0.13
2810S	5/16"	15/16"	0.25
2812S	3/8"	15/16"	0.25
Std. Pkg. 4			

12 Point

2808T	1/4"	15/16"	0.13
2809T	9/32"	15/16"	0.13
2810T	5/16"	15/16"	0.13
2811T	11/32"	15/16"	0.13
2812T	3/8"	15/16"	0.25
2814T	7/16"	15/16"	0.25
2816T	1/2"	15/16"	0.25
Std. Pkg. 6			

DEEP SOCKETS††

6 Point

2806D	3/16"	2"	0.31
2807D	7/32"	2"	0.38
2808D	1/4"	2"	0.38
2809D	9/32"	2"	0.39
2810D	5/16"	2"	0.40
2811D	11/32"	2"	0.40
2812D	3/8"	2"	0.55
2814D	7/16"	2"	0.63
2816D	1/2"	2"	0.63
Std. Pkg. 6			

12 Point

2808TD	1/4"	2"	0.38
2809TD	9/32"	2"	0.39
2810TD	5/16"	2"	0.40
2811TD	11/32"	2"	0.40
2812TD	3/8"	2"	0.55
2814TD	7/16"	2"	0.63
2816TD	1/2"	2"	0.63
Std. Pkg. 6			

METRIC REGULAR SOCKETS§

No.	Size	Length	Pkg. Wt. Lbs.
6 Point			
2883	4mm	24mm	0.13
2884	5mm	24mm	0.13
2885	5.5mm	24mm	0.13
2886	6mm	24mm	0.13
2887	7mm	24mm	0.13
2888	8mm	24mm	0.13
2889	9mm	24mm	0.25
2890	10mm	24mm	0.25
2891	11mm	24mm	0.25
2892	12mm	24mm	0.25
2893	13mm	24mm	0.25
Std. Pkg. 6			

METRIC DEEP SOCKETS§

6 Point

2886D	6mm	51mm	0.38
2887D	7mm	51mm	0.39
2888D	8mm	51mm	0.40
2889D	9mm	51mm	0.52
2890D	10mm	51mm	0.55
2891D	11mm	51mm	0.63
2892D	12mm	51mm	0.67
2893D	13mm	51mm	0.70
2894D	14mm	51mm	0.74
Std. Pkg. 6			

TORX SOCKETS

405	E5	15/16"	0.09
406	E6	15/16"	0.09
407	E7	15/16"	0.09
408	E8	15/16"	0.09
410	E10	15/16"	0.09
Std. Pkg. 4			



2806-2816



2883-2893



2808S-2812S



2886D-2894D



2808T-2816T



405-410



2806D-2816D



2808TD-2816TD



2736A



2739



6272



2775A



2780

No. 2736A SWIVEL HEAD RATCHET

A specially designed tool for working around obstructions. Ratchet head swivels a full 90° in both directions. Features include the same smooth ratcheting action as the Socket Mate Round Head Ratchet, with a new bite every 6°. Length 10".

Std. Pkg. 3—Pkg. Wt. 2.48 Lbs.

No. 2739 BENT HANDLE SWIVEL HEAD RATCHET

This ratchet is specifically designed to work in the tight spots. Full 90° swivel in both directions as well as a 20° bend of the handle makes it ideal for tune-up applications. Length 10".

Std. Pkg. 3—Pkg. Wt. 2.48 Lbs.

No. 6272 REVERSIBLE RATCHET††

Oval head design, 24 tooth ratcheting mechanism. Ratchet reverses by turning control lever. Round, knurled handle provides comfortable non-slip grip. Length 7½".

Std. Pkg. 3—Pkg. Wt. 2.12 Lbs.

No. 6272-8 INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 6272 Reversible Ratchet. Assembly instructions furnished with each unit.

Std. Pkg. 1—Pkg. Wt. 0.18 Lb.

No. 2775A SOCKET MATE ROUND HEAD RATCHET††

Round head design with six point cap allows for easy one hand reversing operation. Sixty precision teeth assures smooth ratcheting action with a new bite every 6°. One internal gear mechanism makes disassembly for cleaning easy, and requires no special tools. Round, knurled handle provides a comfortable non-slip grip. Length 7½".

Std. Pkg. 3—Pkg. Wt. 1.75 Lbs.

No. 2775A-8 INNER BODY ASSEMBLY

Designed to fit Socket Mate and swivel head ratchets Nos. 2736A, 2739 & 2775A. Replacement ratcheting mechanism comes complete with instructions for installing.

Std. Pkg. 1—Pkg. Wt. 0.12 Lb.

No. 2780 "SLR 375" QUICK RELEASE, LOCKING RATCHET

Oval solid forged head design, 24 tooth ratcheting mechanism. Easy push-button release. Locking mechanism will hold sockets and fitting securely. Positive one thumb reversing action. Round, knurled handle provides comfortable non-slip grip. Length 7½".

Std. Pkg. 4—Pkg. Wt. 2.90 Lbs.

No. 4480-8 INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 2780 SLR Quick Release, Locking Ratchet. Complete instructions for removing and installing furnished with each unit.

Std. Pkg. 1—Pkg. Wt. 0.20 Lb.



No. 482 ADAPTOR—3/8" FEMALE X 1/2" MALE††

Adapts 1/2" Square Drive Sockets for use with 3/8" Square Drive Attachments.
Std. Pkg. 4—Pkg. Wt. 0.36 Lb.

No. 491 ADAPTOR—1/4" MALE X 3/8" FEMALE††

Adapts 1/4" Square Drive Sockets for use with 3/8" Square Drive Attachments.
Std. Pkg. 4—Pkg. Wt. 0.25 Lb.

EXTENSIONS

For use in reaching nuts and bolts that are not readily accessible. Available in various lengths.

No.	Length	Std. Pkg.	Pkg. Wt. Lb.
2730	3"	4	0.75
2731	1 3/4"	4	0.50
2732	4 1/2"	4	0.82
2733	6"	4	0.98
2734	10"	4	1.43
2737	20"	4	2.61

No. 2763 SLIDE "T" HANDLE††

Head can be located at any position on bar. Length 8".
Std. Pkg. 2—Pkg. Wt. 0.75 lb.

No. 2781 SWING HEAD HANDLE††

Provides extra leverage needed to break loose those stubborn nuts and bolts. Round, knurled handle. Length 9".
Std. Pkg. 3—Pkg. Wt. 1.84 Lbs.

No. 2785 SPEEDER HANDLE††

Convenient when speed and reach are required. Length 16 1/2".
Std. Pkg. 3—Pkg. Wt. 3.00 Lbs.

No. 2797 UNIVERSAL JOINT††

Handy attachment for turning nuts and bolts in hard-to-reach work areas. Spring loaded friction holds drive end in desired position. Overall length 1 13/16".
Std. Pkg. 3—Pkg. Wt. 0.38 Lb.

SPARK PLUG HOLDING SOCKETS

Special extra deep 6 point sockets for installing or removing spark plugs. Oil resistant insert holds plug securely at the insulator and prevents damage.

No.	Size	Overall Length	Use With	Pkg Wt. Lbs.
2745HS†	5/8"	2 7/16"	3/8" Dr. or 3/4" Wr.	1.44
2747HS	3/4"	2 1/8"	3/8" Dr. or 1 3/16" Wr.	1.70
2748HS†	1 3/16"	2 7/16"	3/8" Dr. or 7/8" Wr.	1.79

Std. Pkg. 6

UNIVERSAL JOINT SPARK PLUG SOCKETS

2745UV	5/8"	3 5/8"	3/8" Drive	2.00
2748UV	1 3/16"	3 1/4"	3/8" Drive	2.48

Std. Pkg. 6

OIL RESISTANT INSERTS

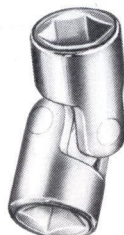
6245HS-2	Replacement for 2745HS and 2745UV	0.13
2724HS-2	Replacement for 2747HS	0.13
4426HS-2	Replacement for 2748HS and 2748UV	0.13

Std. Pkg. 6

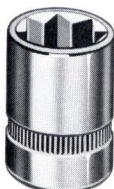




2708H-2728H



2712UV-2724UV



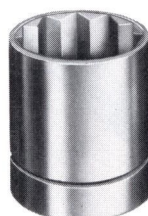
2712S-2716S



46007-46009



2712-2729B



46010-46024



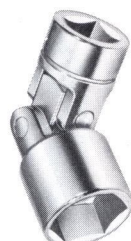
2741H-2749H



46009HD-46019HD



2742-2749



409UV-417UV

Made from FINE QUALITY STEEL and heat treated for extra strength. Polished to a mirror finish and completely plated in a rich deep chrome.

SOCKETS

REGULAR SOCKETS†‡				UNIVERSAL JOINT SOCKETS†‡			
No.	Size	Length	Pkg. Wt. Lbs.	No.	Size	Length	Pkg. Wt. Lbs.
6 Point							
2708H	1/4"	1 1/16"	0.30	2712UV	3/8"	1 11/16"	0.25
2710H	5/16"	1 1/16"	0.31	2714UV	7/16"	1 11/16"	0.30
2712H	3/8"	1 1/16"	0.34	2716UV	1/2"	1 11/16"	0.35
2714H	7/16"	1 1/16"	0.36	2718UV	9/16"	1 5/16"	0.40
2716H	1/2"	1 1/16"	0.42	2720UV	5/8"	2"	0.40
2718H	9/16"	1 1/8"	0.53	2722UV	11/16"	2 1/4"	0.40
2720H	5/8"	1 1/8"	0.59	2724UV	3/4"	2 3/16"	0.43
2722H	11/16"	1 1/8"	0.78	Std. Pkg. 2			
2724H	3/4"	1 1/8"	0.89				
2726H	13/16"	1 3/16"	1.03				
2728H	7/8"	1 1/4"	1.04				
Std. Pkg. 6							

8 Point			
2712S	3/8"	1 1/16"	0.26
2714S	7/16"	1 1/8"	0.37
2716S	1/2"	1 1/8"	0.45
Std. Pkg. 4			

12 Point			
2712	3/8"	1 1/16"	0.23
2714	7/16"	1 1/16"	0.33
2716	1/2"	1 1/16"	0.44
2718	9/16"	1 1/16"	0.50
2720	5/8"	1 1/16"	0.50
2722	11/16"	1 1/8"	0.75
2724	3/4"	1 1/8"	0.75
2726	13/16"	1 3/16"	0.97
2728	7/8"	1 1/4"	1.35
2729A	15/16"	1 1/2"	1.75
2729B	1"	1 1/2"	1.81
Std. Pkg. 6			

EXTRA DEEP SOCKETS†‡			
6 Point			
2741H	3/8"	2 1/16"	0.64
2742H	7/16"	2 1/16"	0.87
2743H	1/2"	2 1/16"	0.88
2744H	9/16"	2 1/16"	0.89
2745H	5/8"	2 1/2"	1.31
2746H	11/16"	2 1/2"	1.40
2747H	3/4"	2 1/2"	1.79
2748H	13/16"	2 5/8"	2.00
2749H	7/8"	2 3/4"	2.80
Std. Pkg. 6			

12 Point			
2742	7/16"	2 1/16"	0.70
2743	1/2"	2 1/16"	0.79
2744	9/16"	2 1/16"	0.80
2745	5/8"	2 1/2"	0.89
2746	11/16"	2 1/2"	1.36
2747	3/4"	2 1/2"	1.75
2748	13/16"	2 3/4"	1.95
2749	7/8"	2 3/4"	2.70
Std. Pkg. 6			

METRIC SOCKETS§

6 Point			
46007	7mm	27mm	0.25
46008	8mm	27mm	0.31
46009	9mm	27mm	0.34
Std. Pkg. 6			

12 Point			
46010	10mm	27mm	0.34
46011	11mm	27mm	0.34
46012	12mm	27mm	0.36
46013	13mm	27mm	0.38
46014	14mm	28.5mm	0.46
46015	15mm	28.5mm	0.54
46016	16mm	28.5mm	0.60
46017	17mm	28.5mm	0.68
46018	18mm	28.5mm	0.74
46019	19mm	28.5mm	0.81
46022	22mm	31.5mm	1.38
46024	24mm	38.0mm	2.33
Std. Pkg. 6			

METRIC DEEP SOCKETS§

6 Point			
46009HD	9mm	52.39mm	0.64
46010HD	10mm	52.39mm	0.87
46011HD	11mm	52.39mm	0.88
46012HD	12mm	52.39mm	0.89
46013HD	13mm	52.39mm	0.91
46014HD	14mm	52.39mm	1.00
46015HD	15mm	52.39mm	1.10
46016HD	16mm	63.50mm	1.31
46017HD	17mm	63.50mm	1.40
46018HD	18mm	63.50mm	1.50
46019HD	19mm	63.50mm	1.79
Std. Pkg. 6			

UNIVERSAL JOINT SOCKETS§

409UV	9mm	41.27mm	0.25
410UV	10mm	41.27mm	0.30
411UV	11mm	41.27mm	0.35
412UV	12mm	41.27mm	0.40
413UV	13mm	41.27mm	0.41
414UV	14mm	47.62mm	0.41
415UV	15mm	50.80mm	0.43
416UV	16mm	50.80mm	0.50
417UV	17mm	52.39mm	0.55
Std. Pkg. 2			



No. 2738A STOPLIGHT/OIL PRESSURE LIGHT SOCKET

A specially designed socket for use on oil sending switch and stoplight switches. Double hex 1" and 1 1/16" opening. Overall length 2".

Std. Pkg. 4—Pkg. Wt. 1.50 Lbs.



2738A

CROWFOOT WRENCHES

TORX SOCKETS

No.	Size	Pkg. Wt. Lbs.	No.	Size	Length	Pkg. Wt. Lbs.
2712C	3/8"	0.30	610	E10	1 3/16"	0.55
2714C	7/16"	0.31	612	E12	1 3/16"	0.56
2716C	1/2"	0.33	614	E14	1 3/16"	0.65
2718C	9/16"	0.41	616	E16	1 3/16"	0.62
2720C	5/8"	0.52	Std. Pkg. 4			
2722C	1 1/16"	0.60				
2724C	3/4"	0.66				
2726C	13/16"	0.70				
2728C	7/8"	0.74				

Std. Pkg. 4



2712C-2728C

TORX ADAPTORS

No.	Bit Size	Length	Pkg. Wt. Lbs.	Bit No.	Pkg. Wt. Lbs.
540T	T10	1 3/4"	0.39	540	0.06
542T	T15	1 3/4"	0.39	542	0.06
544T	T20	1 13/16"	0.39	544	0.06
546T	T25	1 13/16"	0.39	546	0.06
548T	T27	1 13/16"	0.39	548	0.06
550T	T30	1 13/16"	0.39	550	0.06
564T	T40	2 1/16"	0.46	564	0.13
566T	T45	2 1/16"	0.46	566	0.13
568T	T50	2 1/16"	0.46	568	0.13
570T	T55	2 3/16"	0.81	570	0.40

Std. Pkg. 4

Std. Pkg. 4



610-616



540T-570T

ADAPTORS

Bit No.	Size	Length	Pkg. Wt. Lbs.	Bit No.	Size	Length	Pkg. Wt. Lbs.
PHILLIPS SCREWDRIVER				SLOTTED SCREWDRIVER			
2751	#1	2 3/4"	0.25	2751-1	1/4"	3"	0.53
2752	#2	2 3/4"	0.34	2752-1	3/8"	3"	0.53
2753	#3	2 3/4"	0.41	2753-1			
2754	#4	2 3/4"	0.47	2754-1			

Std. Pkg. 4

Std. Pkg. 4

Std. Pkg. 4

Std. Pkg. 4

2751-2754



2761-2762

Bit No.	Size	Length	Pkg. Wt. Lbs.	Bit No.	Size	Length	Pkg. Wt. Lbs.
HEX KEY				METRIC HEX KEY			
2755A	1/8"	2 1/16"	0.40	2755A-2			0.07
2755	5/32"	2 1/16"	0.40	2755-2			0.07
2756	3/16"	2 1/16"	0.43	2756-2			0.10
2757	1/4"	2 1/16"	0.43	2757-2			0.14
2758	5/16"	2 1/16"	0.51	2758-2			0.18
2759	3/8"	2 1/16"	0.60	2759-2			0.28
2760	7/16"	2 1/16"	0.81	2760-2			0.40

Std. Pkg. 4

Std. Pkg. 4

Std. Pkg. 4

Std. Pkg. 4

2755A-2760



4004-4010



3270A



6472



3275A
3289A



3280

No. 3270A SWIVEL HEAD REVERSIBLE RATCHET

A specially designed tool for working around obstructions. Ratchet head swivels a full 90° in both directions. Features include the same smooth ratcheting action as the Socket Mate Round Head Ratchet, 60 tooth ratcheting action allows a new bite every 6°. Length 12".

Std. Pkg. 3—Pkg. Wt. 4.94 Lbs.

No. 6472 REVERSIBLE RATCHET††

Oval head design, 30 tooth ratcheting mechanism. Ratchet reverses instantly by turning thumb control lever. Round, knurled handle. Length 10 1/4".

Std. Pkg. 3—Pkg. Wt. 4.25 Lbs.

No. 6472-8 INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 6472 Reversible Ratchet. Complete instructions for removing and installing furnished with each unit.

Std. Pkg. 1—Pkg. Wt. 0.25 Lb.

SOCKET MATE ROUND HEAD RATCHET††

Round head design with six point cap allows for easy one hand reversing operation. Sixty precision teeth assures smooth ratcheting action with a new bite every 6°. One internal gear mechanism makes disassembly for cleaning easy, and requires no special tools. Round, knurled handle provides a comfortable non-slip grip.

No. 3275A—10 1/2" Length

No. 3289A—15 1/2" Length

Std. Pkg. 3—Pkg. Wt. 4.25 Lbs.

Std. Pkg. 3—Pkg. Wt. 5.13 Lbs.

No. 3275A-8 INNER BODY ASSEMBLIES

Designed to fit Socket Mate and swivel head ratchet wrenches, No. 3270A, 3275A and 3289A. Replacement ratcheting mechanism comes complete with instructions for installing.

Std. Pkg. 1—Pkg. Wt. 0.25 Lb.

No. 3280 "SLR 500" QUICK RELEASE, LOCKING RATCHET

Oval solid forged head design, 30 tooth ratcheting mechanism. Easy push-button release. Locking mechanism will hold sockets and fitting securely. Positive one thumb reversing action. Round, knurled handle provides comfortable non-slip grip. Length 10".

Std. Pkg. 4—Pkg. Wt. 5.75 Lbs.

No. 680-8 INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 3280 SLR Quick Release, Locking Ratchet. Complete instructions for removing and installing furnished with each unit.

Std. Pkg. 1—Pkg. Wt. 0.20 Lb.



No. 483 ADAPTOR—1/2" FEMALE X 3/4" MALE††

Adapts 3/4" Square Drive Sockets for use with 1/2" Square Drive Attachments.
Std. Pkg. 4—Pkg. Wt. 1.23 Lbs.

No. 492 ADAPTOR—1/2" FEMALE X 3/8" MALE††

Adapts 3/8" Square Drive Sockets for use with 1/2" Square Drive Attachments.
Std. Pkg. 4—Pkg. Wt. 0.58 Lb.

No. 3217 UNIVERSAL JOINT††

Handy attachment for turning nuts and bolts in hard-to-reach work areas. Spring loaded friction holds drive end in desired position. Overall length 29/32".

Std. Pkg. 4—Pkg. Wt. 1.00 Lb.

No. 3208 SPEEDER HANDLE†

Designed especially for speedy nut turning. Length 175/8".

Std. Pkg. 4—Pkg. Wt. 6.75 Lbs.

EXTENSIONS††

Handy attachments for use in reaching nuts and bolts that are not readily accessible.

No.	Length	Std. Pkg.	Pkg. Wt. Lbs.
3230	27/16"	4	1.00
3216	6"	4	1.64
3211	10"	4	2.68
3218	20"	4	5.36

No. 3206 SLIDE "T" HANDLE††

Notched so it will slide flush with end of bar. Spring loaded head holds at any position. Length 11".

Std. Pkg. 4—Pkg. Wt. 4.00 Lbs.

SWING HEAD HANDLES††

Ideal tool where extra leverage is needed to tighten or break loose stubborn nuts or bolts.

No.	Length	Std. Pkg.	Pkg. Wt. Lbs.
3222	15 1/2"	2	2.84
3223	18"	2	3.38

SPARK PLUG HOLDING SOCKETS†

Special extra deep 6 point sockets for installing or removing spark plugs. Oil resistant insert holds plug securely at the insulator and prevents damage.

No.	Size	Overall Length	Use With	Pkg. Wt. Lbs.
3026HS	13/16"	27/16"	1/2" Dr. or 7/8" Wr.	1.50
3028HS	7/8"	23/4"	1/2" Dr.	3.15
Std. Pkg. 6				

OIL RESISTANT INSERTS

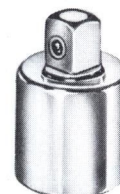
4426HS-2	Replacement for 3026HS	0.13
E3028HS-2	Replacement for 3028HS	0.13
Std. Pkg. 6		



483



492



3217

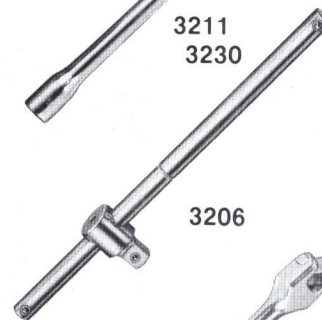


3208



3211

3230



3206



3222-3223



3026HS



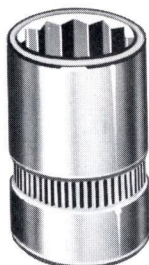
3028HS



3



1212H-1240H



1214-1248



47010-47036



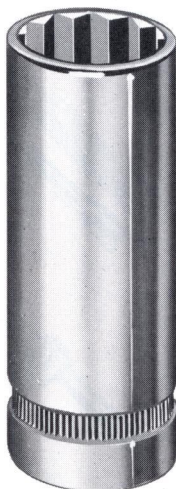
4012-4017



3213



3016H-3040H



3016-3040



1266-1270

SOCKETS

REGULAR SOCKETS††				DEEP SOCKETS††			
No.	Size	Length	Pkg. Wt. Lbs.	No.	Size	Length	Pkg. Wt. Lbs.
6 Point							
1212H	3/8"	1 1/2"	0.63	3032H	1"	3 1/4"	3.47
1214H	7/16"	1 1/2"	0.68	3034H	1 1/16"	3 1/4"	3.50
1216H	1/2"	1 1/2"	0.72	3036H	1 1/8"	3 1/4"	3.55
1218H	9/16"	1 1/2"	0.87	3040H	1 1/4"	3 1/4"	3.60
1220H	5/8"	1 9/16"	0.90	Std. Pkg. 6			
1222H	11/16"	1 9/16"	0.90	12 Point			
1224H	3/4"	1 9/16"	1.35	3016	1/2"	3 1/4"	1.90
1226H	13/16"	1 5/8"	1.35	3018	9/16"	3 1/4"	1.96
1228H	7/8"	1 21/32"	1.55	3020	5/8"	3 1/4"	1.98
1230H	15/16"	1 21/32"	1.77	3022	11/16"	3 1/4"	2.14
1232H	1"	1 21/32"	2.27	3024	3/4"	3 1/4"	2.60
1234H	1 1/16"	1 21/32"	2.70	3026	13/16"	3 1/4"	3.12
1236H	1 1/8"	1 21/32"	2.78	3028	7/8"	3 1/4"	3.15
1240H	1 1/4"	1 21/32"	3.22	3030	15/16"	3 1/4"	3.31
Std. Pkg. 6				3032	1"	3 1/4"	3.47
12 Point				3034	1 1/16"	3 1/4"	3.50
1214	7/16"	1 1/2"	0.65	3036	1 1/8"	3 1/4"	3.55
1216	1/2"	1 1/2"	0.71	3040	1 1/4"	3 1/4"	3.60
1218	9/16"	1 1/2"	0.85	Std. Pkg. 6			
1220	5/8"	1 9/16"	0.95	METRIC REGULAR SOCKETS §			
1222	11/16"	1 9/16"	1.00	12 Point			
1224	3/4"	1 9/16"	1.31	47010	10mm	38.10mm	0.66
1226	13/16"	1 5/8"	1.48	47011	11mm	38.10mm	0.66
1228	7/8"	1 21/32"	1.66	47012	12mm	38.10mm	0.63
1230	15/16"	1 21/32"	2.25	47013	13mm	38.10mm	0.63
1232	1"	1 21/32"	2.30	47014	14mm	39.69mm	0.72
1234	1 1/16"	1 21/32"	2.68	47015	15mm	39.69mm	0.88
1236	1 1/8"	1 21/32"	2.71	47016	16mm	39.69mm	0.89
1240	1 1/4"	1 21/32"	3.25	47017	17mm	39.69mm	0.89
1242	15/16"	1 11/16"	*1.90	47018	18mm	39.69mm	0.89
1244	1 3/8"	1 11/16"	*2.37	47019	19mm	39.69mm	1.07
1246	1 7/16"	1 11/16"	*3.05	47020	20mm	41.28mm	1.24
1248	1 1/2"	1 11/16"	*3.77	47021	21mm	41.28mm	1.46
Std. Pkg. 6				47022	22mm	42.07mm	1.54
DEEP SOCKETS††				47023	23mm	42.07mm	1.73
6 Point				47024	24mm	42.07mm	1.83
3016H	1/2"	3 1/4"	1.90	47025	25mm	42.07mm	2.06
3018H	9/16"	3 1/4"	1.96	47026	26mm	42.07mm	2.13
3020H	5/8"	3 1/4"	1.98	47027	27mm	42.07mm	2.25
3022H	11/16"	3 1/4"	2.14	47028	28mm	42.07mm	2.44
3024H	3/4"	3 1/4"	2.60	47029	29mm	42.07mm	2.61
3026H	13/16"	3 1/4"	3.12	47030	30mm	42.07mm	2.98
3028H	7/8"	3 1/4"	3.15	47032	32mm	42.07mm	3.00
3030H	15/16"	3 1/4"	3.31	47036	36mm	46.07mm	5.00
Std. Pkg. 6				Std. Pkg. 6			

HEX KEY ADAPTORS

No.	Size	Overall Length	Pkg. Wt. Lbs.	Bit No.	Pkg. Wt. Lbs.
1266	1/2"	2 1/2"	1.02	1266-2	0.54
1268	9/16"	2 1/2"	1.28	1268-2	0.70
1270	5/8"	2 1/2"	1.46	1270-2	0.86
Std. Pkg. 4				Std. Pkg. 4	

METRIC HEX KEY ADAPTORS

4012	12mm	64mm	0.93	4012-2	0.51
4014	14mm	64mm	1.18	4014-2	0.70
4017	17mm	64mm	1.56	4017-2	0.94
Std. Pkg. 4				Std. Pkg. 4	

No. 3213 DRAG LINK SOCKET

Designed especially for adjusting drag links. Can also be used as a heavy duty screwdriver. Bit size .150" thick x 15/16" wide.

Std. Pkg. 4—Pkg. Wt. 0.62 Lb.



No. 484 ADAPTOR—3/4" FEMALE X 1" MALE††

Adapts 1" Square Drive Sockets for use with 3/4" Square Drive Attachments.
Std. Pkg. 2—Pkg. Wt. 1.13 Lbs.

No. 493 ADAPTOR—3/4" FEMALE X 1/2" MALE††

Adapts 1/2" Square Drive Sockets for use with 3/4" Square Drive Attachments.
Std. Pkg. 4—Pkg. Wt. 1.68 Lbs.

SOCKETS—12 POINT§†

No.	Size	Length	Pkg. Wt. Lbs.	No.	Size	Length	Pkg. Wt. Lbs.
2228	7/8"	1 13/16"	0.86	2248	1 1/2"	2 5/16"	2.50
2230	15/16"	1 13/16"	0.91	2252	1 5/8"	2 7/16"	2.89
2232	1"	1 13/16"	1.00	2254	1 11/16"	2 1/2"	3.30
2234	1 1/16"	1 15/16"	1.08	2256	1 3/4"	2 9/16"	3.84
2236	1 1/8"	2"	1.13	2258	1 13/16"	2 5/8"	3.68
2238	1 3/16"	2"	1.24	2260	1 7/8"	2 11/16"	3.93
2240	1 1/4"	2 1/16"	1.41	2264	2"	2 13/16"	5.40
2242	1 5/16"	2 1/8"	1.75	2268	2 1/8"	2 15/16"	6.11
2244	1 3/8"	2 3/16"	1.91	2270	2 3/16"	3"	6.45
2246	1 7/16"	2 1/4"	2.30	2272	2 1/4"	3 1/16"	6.50

Std. Pkg. 2

No. 2396 UNIVERSAL JOINT††

Handy attachment for turning nuts and bolts in hard-to-reach work areas. Spring loaded friction holds drive end in desired position. Overall length 3 11/16".

Std. Pkg. 1—Pkg. Wt. 1.25 Lbs.

EXTENSIONS†

For use in reaching nuts and bolts that are not readily accessible. Available in various lengths.

No.	Length	Std. Pkg.	Pkg. Wt. Lbs.
2362	4"	2	1.66
2364	8"	2	3.32
2365	16"	2	6.65

No. 2363 SLIDE "T" HANDLE††

Used principally with extensions to spin nuts on or off. Length 18".

Std. Pkg. 1—Pkg. Wt. 3.43 Lbs.

No. 2366A SWING HEAD HANDLE††

Provides extra leverage needed to break loose those stubborn nuts and bolts. Length 19".

Std. Pkg. 1—Pkg. Wt. 3.64 Lbs.

No. 2372 REVERSIBLE RATCHET††

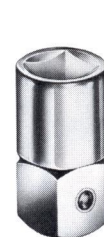
Oval head design, 24 tooth ratcheting mechanism. Ratchet reverses instantly by turning thumb control lever. Round, knurled handle provides comfortable non-slip grip. Length 18".

Std. Pkg. 1—Pkg. Wt. 5.63 Lbs.

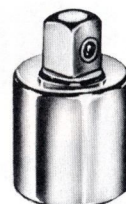
No. 2372-8 INNER BODY ASSEMBLY

Replacement mechanism for No. 2372 Reversible Ratchet. Complete instructions for removing and installing furnished with each unit.

Std. Pkg. 1—Pkg. Wt. 1.88 Lbs.



484



493



2228-2272



2396



2362-2365



2363



2366A



2372



494



12008



12017



12010



12015



12020



12046-12100

No. 494 ADAPTOR—1" FEMALE X 3/4" MALE††

Adapts 3/4" Square Drive Sockets for use with 1" Square Drive Attachments.
Std. Pkg. 2—Pkg. Wt. 1.98 Lbs.

EXTENSIONS††

For use in reaching nuts and bolts that are not readily accessible. Available in various lengths.

No.	Old No.	Length	Std. Pkg.	Pkg. Wt. Lbs.
12008	14008	8"	1	2.40
12017	14017	17"	1	4.40

No. 12010 (Old No. 14010) REVERSIBLE RATCHET††

30" long handle provides extra leverage. 45 tooth mechanism gives a bite with less than a 5" arc at end of handle. Knurled handle for firm gripping.
Std. Pkg. 1—Pkg. Wt. 8.70 Lbs.

No. 14011 INNER BODY ASSEMBLY

Replacement ratcheting mechanism for 1" Drive Reversible Ratchet No. 12010.
Std. Pkg. 1—Pkg. Wt. 1.10 Lbs.

No. 12015 (Old No. 14015) SWING HEAD HANDLE††

Ideal tool to tighten or break loose stubborn nuts and bolts. 26" long handle provides extra leverage. Knurled handle gives a firm grip.
Std. Pkg. 1—Pkg. Wt. 8.30 Lbs.

No. 12020 (Old No. 14020) SLIDE "T" HANDLE††

Friction ball holds head in position without sliding off. Handle length is 22". Designed for working in tight places.
Std. Pkg. 1—Pkg. Wt. 4.70 Lbs.

SOCKETS—12 POINT§†

No.	Old No.	Size	Length	Pkg. Wt. Lbs.	No.	Old No.	Size	Length	Pkg. Wt. Lbs.
12046	14046	1 1/16"	2 1/2"	0.90	12072	14072	2 1/4"	3 3/16"	2.60
12048	14048	1 1/2"	2 9/16"	1.00	12076	14076	2 3/8"	3 5/16"	2.80
12052	14052	1 5/8"	2 1 1/16"	1.10	12080	14080	2 1/2"	3 7/16"	3.00
12054	14054	1 11/16"	2 1 1/8"	1.40	12082	14082	2 5/8"	3 1/2"	3.00
12058	14058	1 13/16"	2 7/8"	1.60	12084	14084	2 5/8"	3 5/16"	3.50
12060	14060	1 7/8"	2 15/16"	2.00	12088	14088	2 3/4"	3 11/16"	4.40
12064	14064	2"	2 1 5/16"	2.10	12094	14094	2 5/16"	3 7/8"	4.60
12068	14068	2 1/8"	3 1/16"	2.30	12096	14096	3"	3 7/8"	5.10
12070	14070	2 3/16"	3 1/8"	2.40	12100	14100	3 1/8"	4 1/8"	5.70

Std. Pkg. 1



Set #4300-8 8 PIECE 6 POINT IMPACT SOCKETS

4360	5/16"	4366	1/2"	4372	1 1/16"	9852	9" Rail
4362	3/8"	4368	9/16"	4374	3/4"	9850-3	3/8" Clips (9)
4364	7/16"	4370	5/8"				

Std. Pkg. 1 — Pkg. Wt. 1.05 Lbs.

Set #4300UV-7 7 PIECE UNIVERSAL JOINT IMPACT SOCKETS

4362UV	3/8"	4368UV	9/16"	4374UV	3/4"	9852	9" Rail
4364UV	7/16"	4370UV	5/8"			9850-3	3/8" Clips (7)
4366UV	1/2"	4372UV	1 1/16"				

Std. Pkg. 1 — Pkg. Wt. 1.79 Lbs.

Set #4300M-12 12 PIECE METRIC 6 POINT IMPACT SOCKETS

45008	8mm	45012	12mm	45016	16mm	9853	17" Rail
45009	9mm	45013	13mm	45017	17mm	9850-3	3/8" Clips (12)
45010	10mm	45014	14mm	45018	18mm		
45011	11mm	45015	15mm	45019	19mm		

Std. Pkg. 1 — Pkg. Wt. 1.62 Lbs.

IMPACT SOCKETS 6 POINT

No.	Size	Length	Pkg. Wt. Lbs.	No.	Size	Length/mm	Pkg. Wt. Lbs.
REGULAR SOCKETS†				METRIC SOCKETS			
4360	5/16"	1 3/16"	0.34	45008	8mm	30mm	0.17
4362	3/8"	1 3/16"	0.37	45009	9mm	30mm	0.18
4364	7/16"	1 3/16"	0.40	45010	10mm	30mm	0.19
4366	1/2"	1 3/16"	0.56	45011	11mm	31mm	0.20
4368	9/16"	1 1/4"	0.68	45012	12mm	31mm	0.20
4370	5/8"	1 1/4"	0.87	45013	13mm	31mm	0.28
4372	1 1/16"	1 1/4"	1.00	45014	14mm	31mm	0.34
4374	3/4"	1 1/4"	1.37	45015	15mm	31mm	0.35
				45016	16mm	31mm	0.44
				45017	17mm	31mm	0.50
				45018	18mm	31mm	0.50
				45019	19mm	31mm	0.69

Std. Pkg. 6

UNIVERSAL JOINT SOCKETS†

4362UV	3/8"	2 1/16"	0.40
4364UV	7/16"	2 1/16"	0.40
4366UV	1/2"	2 1/8"	0.44
4368UV	9/16"	2 1/8"	0.44
4370UV	5/8"	2 3/16"	0.52
4372UV	1 1/16"	2 3/16"	0.52
4374UV	3/4"	2 3/16"	0.69

Std. Pkg. 2

No. 4350 ADAPTOR—3/8" FEMALE X 1/2" MALE†

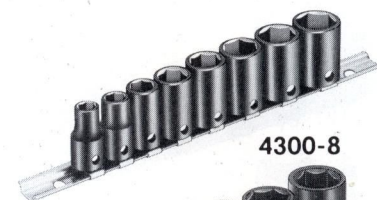
Adapts 1/2" Square Drive Impact Sockets for use with 3/8" Square Drive Attachments.

Std. Pkg. 4—Pkg. Wt. 0.75 Lb.

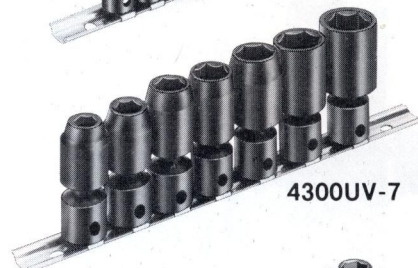
EXTENSIONS†

For use in reaching nuts and bolts that are not readily accessible. Available in various lengths.

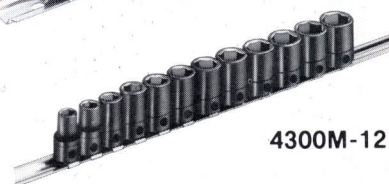
No.	Length	Std. Pkg.	Pkg. Wt. Lbs.
4355	3"	4	1.00
4356	6"	4	1.75



4300-8



4300UV-7



4300M-12



4360-4362



4364-4374



45008-45011



45012-45019



4350



4362UV-4374UV



4355-4356



1150-10



1150-13



1150D-8



1150UV-5



1150M-13

Set #1150-10 10 PIECE IMPACT SOCKETS

1164	7/16"	1172	1 1/16"	1180	1 5/16"	9853	17" Rail
1166	1/2"	1174	3/4"	1182	1"	9850-4	1/2" Clips (10)
1168	9/16"	1176	1 3/16"				
1170	5/8"	1178	7/8"				

Std. Pkg. 1 — Pkg. Wt. 3.00 Lbs.

Set #1150-13 13 PIECE IMPACT SOCKETS

1164	7/16"	1174	3/4"	1184	1 1/16"	9853	17" Rail
1166	1/2"	1176	1 3/16"	1186	1 1/8"	9850-4	1/2" Clips (13)
1168	9/16"	1178	7/8"	1190	1 1/4"		
1170	5/8"	1180	1 5/16"				
1172	1 1/16"	1182	1"				

Std. Pkg. 1 — Pkg. Wt. 4.78 Lbs.

Set #1150D-8 8 PIECE DEEP IMPACT SOCKETS

1142	7/16"	1145	5/8"	1148	1 3/16"	9852	9" Rail
1143	1/2"	1146	1 1/16"	1149	7/8"	9850-4	1/2" Clips (8)
1144	9/16"	1147	3/4"				

Std. Pkg. 1 — Pkg. Wt. 4.16 Lbs.

Set #1150UV-5 5 PIECE UNIVERSAL JOINT IMPACT SOCKETS

1166UV	1/2"	1170UV	5/8"	1174UV	3/4"	9851	6" Rail
1168UV	9/16"	1172UV	1 1/16"			9850-4	1/2" Clips (13)

Std. Pkg. 1 — Pkg. Wt. 1.96 Lbs.

Set #1150M-13 13 PIECE METRIC IMPACT SOCKETS

48010	10mm	48015	15mm	48021	21mm	9853	17" Rail
48011	11mm	48016	16mm	48022	22mm	9850-4	1/2" Clips (13)
48012	12mm	48017	17mm	48024	24mm		
48013	13mm	48018	18mm				
48014	14mm	48019	19mm				

Std. Pkg. 1 — Pkg. Wt. 3.15 Lbs.



IMPACT SOCKETS 6 POINT

No.	Size	Length	Pkg. Wt. Lbs.	No.	Size	Length	Pkg. Wt. Lbs.
REGULAR SOCKETS†				DEEP SOCKETS†			
1164	7/16"	1 1/2"	0.93	1142	7/16"	3 1/4"	2.47
1166	1/2"	1 1/2"	0.93	1143	1/2"	3 1/4"	2.23
1168	9/16"	1 1/2"	0.93	1144	9/16"	3 1/4"	2.05
1170	5/8"	1 1/2"	1.12	1145	5/8"	3 1/4"	2.35
1172	11/16"	1 1/2"	1.31	1146	11/16"	3 1/4"	3.01
1174	3/4"	1 1/2"	1.37	1147	3/4"	3 1/4"	3.19
1176	13/16"	1 1/2"	1.93	1148	13/16"	3 1/4"	3.79
1178	7/8"	1 1/2"	2.12	1149	7/8"	3 1/2"	4.70
1180	15/16"	1 3/4"	2.68	Std. Pkg. 6			
1182	1"	1 3/4"	2.93	METRIC SOCKETS			
1184	1 1/16"	1 3/4"	3.37				
1186	1 1/8"	1 3/4"	3.43	48010	10mm	37mm	0.30
1190	1 1/4"	1 3/4"	3.75	48011	11mm	37mm	0.31

Std. Pkg. 6

UNIVERSAL JOINT SOCKETS†

1166UV	1/2"	2 3/8"	1.60
1168UV	9/16"	2 7/16"	1.70
1170UV	5/8"	2 7/16"	1.80
1172UV	11/16"	2 5/8"	1.85
1174UV	3/4"	2 23/32"	1.90

Std. Pkg. 2

No. 1163 UNIVERSAL JOINT†

For use with 1/2" Square Drive Sockets to reach into restricted areas.

Std. Pkg. 2—Pkg. Wt. 0.80 lb.

ADAPTORS

No. 1198—1/2" F x 3/8" M. Length 1 1/2". Adapts 3/8" Square Drive Impact Sockets for use with 1/2" Square Drive Attachments.

Std. Pkg. 4—Pkg. Wt. 0.52 lb.

No. 1199—1/2" F x 3/4" M. Length 1 13/16". Adapts 3/4" Square Drive Impact Sockets for use with 1/2" Square Drive Attachments.

Std. Pkg. 4—Pkg. Wt. 1.60 lbs.

EXTENSIONS†

For use in reaching nuts and bolts that are not readily accessible. Available in various lengths.

No.	Length	Std. Pkg.	Pkg. Wt. Lbs.
1155	5"	4	1.95
1156	10"	4	3.74

No. 1195 WHEEL LUG SOCKET

Made with two size openings, a 3/4" single hexagon opening at one end and 13/16" at the other. Socket length is 2 3/16"; diameter 1 3/16". Use with No. 1196 Extension listed below.

Std. Pkg. 4—Pkg. Wt. 0.93 lb.

No. 1196 LUG SOCKET EXTENSION†

Extension for use with wheel lug socket. Length 2 5/8".

Std. Pkg. 4—Pkg. Wt. 3.00 lbs.



1164-1166



1168-1190



1166UV-1174UV



1142-1149



48010-48013



48014-48036



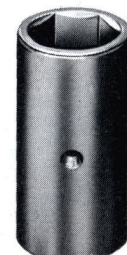
1163



1198



1199



1195



1155-1156



1196



2424-2448



2424D-2428D



2430D-2436D



2438D-2448D



2498



2464-2466



2496



2401



2402

IMPACT SOCKETS 6 POINT

No.	Size	Length	Pkg. Wt. Lbs.	No.	Size	Length	Pkg. Wt. Lbs.
REGULAR SOCKETS‡				DEEP SOCKETS‡			
2424	3/4"	1 3/4"	1.24	2424D	3/4"	3 1/4"	2.66
2426	13/16"	1 7/8"	1.40	2426D	13/16"	3 1/4"	2.66
2428	7/8"	1 7/8"	1.40	2428D	7/8"	3 1/4"	2.88
2430	15/16"	1 7/8"	1.40	2430D	15/16"	3 1/4"	2.88
2432	1"	2"	1.40	2432D	1"	3 1/4"	2.88
2434	1 1/16"	2"	1.62	2434D	1 1/16"	3 1/4"	2.88
2436	1 1/8"	2 1/8"	1.80	2436D	1 1/8"	3 1/2"	3.00
2438	1 3/16"	2 1/8"	2.00	2438D	1 3/16"	3 1/2"	3.00
2440	1 1/4"	2 1/8"	2.00	2440D	1 1/4"	3 1/2"	3.25
2442	1 5/16"	2 1/4"	2.26	2442D	1 5/16"	3 1/2"	3.25
2444	1 3/8"	2 1/4"	2.40	2444D	1 3/8"	3 1/2"	3.25
2446	1 7/16"	2 1/4"	2.60	2446D	1 7/16"	3 1/2"	4.66
2448	1 1/2"	2 1/4"	2.88	2448D	1 1/2"	3 1/2"	4.75

Std. Pkg. 2

Std. Pkg. 2

No. 2498 ADAPTOR—3/4" FEMALE X 1/2" MALE‡

Adapts 1/2" Square Drive Impact Sockets for use with 3/4" Square Drive Attachments. Length 2 1/16".

Std. Pkg. 4—Pkg. Wt. 2.80 Lbs.

EXTENSIONS‡

No.	Length	Std. Pkg.	Pkg. Wt. Lbs.
2464	7"	2	3.00
2466	10"	2	5.88

No. 2496 UNIVERSAL JOINT‡

Short coupled unit that swivels approximately 30° in either direction. Spring loaded, holds drive end at desired position. Male and female. Length 3 5/32".

Std. Pkg. 1—Pkg. Wt. 0.80 Lb.

No. 2401 RETAINER PIN

For use with 3/4" Square Drive Impact Sockets. Made from alloy steel. Length 1 1/2".

Std. Pkg. 12—Pkg. Wt. 0.12 Lb.

No. 2402 "O" RING

Holds retainer pin in 3/4" Square Drive Impact Sockets. Oil resistant neoprene. Diameter 1 7/16".

Std. Pkg. 12—Pkg. Wt. 0.12 Lb.



BUDD WHEEL LUG SOCKETS—SQUARE & HEX OPENINGS

Designed for removal of all Budd type wheels. Nos. 2908 and 2910 have two openings, $\frac{13}{16}$ " Sq. and $1\frac{1}{2}$ " Hex in the same socket, eliminating the need of two separate sockets.

No. 2908—Length 4"

No. 2910—Length 9"

Std. Pkg. 2—Pkg. Wt. 6.25 Lbs.

Std. Pkg. 2—Pkg. Wt. 12.88 Lbs

No. 2912 BUDD WHEEL LUG SOCKET—SQUARE OPENING

This socket with a $\frac{13}{16}$ " square end opening is designed primarily for checking the tightness of installed wheels. Can be used with either of the $1\frac{1}{2}$ " Hex opening sockets to tighten the square-ended Budd stud separately. Length 4".

Std. Pkg. 2—Pkg. Wt. 3.00 Lbs.

IMPACT SOCKETS 6 POINT‡

No.	Size	Length	Pkg. Wt. Lbs.	No.	Size	Length	Pkg. Wt. Lbs.
2928	$\frac{7}{8}$ "	$2\frac{1}{4}$ "	2.50	2948	$1\frac{1}{2}$ "	$2\frac{1}{2}$ "	4.75
2930	$\frac{15}{16}$ "	$2\frac{1}{4}$ "	2.75	2950	$1\frac{9}{16}$ "	$2\frac{1}{2}$ "	4.88
2932	1"	$2\frac{3}{8}$ "	2.75	2952	$1\frac{5}{8}$ "	$2\frac{1}{2}$ "	5.13
2934	$1\frac{1}{16}$ "	$2\frac{3}{8}$ "	2.75	2954	$1\frac{11}{16}$ "	$2\frac{5}{8}$ "	6.50
2936	$1\frac{1}{8}$ "	$2\frac{3}{8}$ "	4.00	2956	$1\frac{3}{4}$ "	$2\frac{5}{8}$ "	6.75
2938	$1\frac{3}{16}$ "	$2\frac{1}{2}$ "	4.00	2958	$1\frac{13}{16}$ "	$2\frac{5}{8}$ "	6.75
2940	$1\frac{1}{4}$ "	$2\frac{1}{2}$ "	4.00	2960	$1\frac{7}{8}$ "	$2\frac{3}{4}$ "	7.13
2942	$1\frac{5}{16}$ "	$2\frac{1}{2}$ "	4.37	2962	$1\frac{15}{16}$ "	$2\frac{3}{4}$ "	8.50
2944	$1\frac{3}{8}$ "	$2\frac{1}{2}$ "	4.50	2964	2"	$2\frac{7}{8}$ "	8.75
2946	$1\frac{7}{16}$ "	$2\frac{1}{2}$ "	4.75				

Std. Pkg. 2

ADAPTORS‡

No. 2990— $\frac{3}{4}$ " Female x 1" Male. Length $2\frac{1}{2}$ ". Adapts 1" Square Drive Impact Sockets for use with $\frac{3}{4}$ " Square Drive Attachments.

Std. Pkg. 2—Pkg. Wt. 1.76 Lbs.

No. 2991—1" Female x $\frac{3}{4}$ " Male. Length 3". Adapts $\frac{3}{4}$ " Square Drive Impact Sockets for use with 1" Square Drive Attachments.

Std. Pkg. 2—Pkg. Wt. 3.00 Lbs.

No. 2981 EXTENSION‡

For use with 1" Square Drive Impact Sockets. Length 7".

Std. Pkg. 2—Pkg. Wt. 6.75 Lbs.

No. 2987 UNIVERSAL JOINT‡

For use with 1" Square Drive Impact Sockets. Short coupled unit that swivels approximately 30° in either direction. Length $4\frac{3}{8}$ ". O.D. $2\frac{3}{8}$ ".

Std. Pkg. 1—Pkg. Wt. 2.56 Lbs.

No. 2993 RETAINER PIN

For use with 1" Square Drive Impact Sockets. Made of alloy steel. Length $1\frac{3}{4}$ ".

Std. Pkg. 12—Pkg. Wt. 0.25 Lb.

"O" RINGS

Holds retainer pin in 1" Square Drive Impact Sockets. Made of oil resistant neoprene.

No. 2995—Diameter $1\frac{3}{4}$ "

Std. Pkg. 12—Pkg. Wt. 0.12 Lb.

No. 2996—Diameter $2\frac{1}{8}$ "

Std. Pkg. 12—Pkg. Wt. 0.15 Lb.



2908



2910



2912



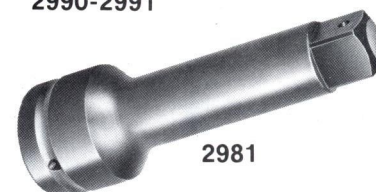
2928-2936



2990-2991



2938-2964



2981



2993



2995-2996



2987



Manufacturers of cars and other mechanical equipment have determined by experience that better performance and longer life can be obtained from machines by tightening certain bolts or groups of bolts to a uniform degree of tightness. Even an experienced mechanic cannot tighten a group of bolts, such as cylinder head bolts, evenly, but with a Torque Wrench, an unskilled apprentice can quickly and accurately tighten bolts uniformly to manufacturers recommendation.

ROUND BEAM TYPE TORQUE WRENCHES

The simplified rugged construction uses a centerless ground alloy steel beam. The torque value is indicated on a clearly marked dual scale with readings in English (in. lbs. or ft. lbs.) or Metric (cmkg or mkg). Durable Cicolac handle pivots for more accuracy.

No.	Square Drive	Torque Range	Graduations	Approx. Length	Pkg. Wt. Lbs.
8091A	1/4"	0 to 120 in. lbs. 0 to 138.2 cmkg	5 in. lb. units 5.76 cmkg units	9"	0.50
8092A	3/8"	0 to 50 ft. lbs. 0 to 6.91 mkg	2 1/2" ft. lb. units .346 mkg units	13"	0.85
8093A	3/8"	0 to 200 in. lbs. 0 to 230.4 cmkg	10 in. lb. units 11.52 cmkg units	13"	0.85
8094A	1/2"	0 to 100 ft. lbs. 0 to 13.82 mkg	2 1/2" ft. lb. units .346 mkg units	18"	2.00
8095A	1/2"	0 to 150 ft. lbs. 0 to 20.75 mkg	5 ft. lb. units .69 mkg units	18"	2.00
8096A	3/4"	0 to 300 ft. lbs. 0 to 41.4 mkg	5 ft. lb. units .69 mkg units	30"	5.55

STD. PKG. 1

MICROMETER ADJUSTABLE TORQUE LIMITING WRENCHES WITH RATCHETING HEADS

Micrometer calibrated torque wrenches that can be preset to the required torque limit. Lock ring on 1/4" drive model; push-pull lock on other drive wrenches prevent accidental change of torque settings. Wrench will "click" when correct torque is reached. Operates and ratchets in both right and left hand directions. Automatic reset when force on Cicolac handle is released. Dual scales with readings in English (in. lbs. or ft. lbs.) and Metric (cmkg or mkg). Meets or exceeds all U.S.A. Government specifications.



No.	Square Drive	Torque Range	Graduations	Approx. Length	Pkg. Wt. Lbs.
8081A	1/4"	30 to 200 in. lbs. 40.3 to 236.2 cmkg	1 in. lb. units 1.2 cmkg units	9 1/2"	0.60
8084B	3/8"	10 to 100 ft. lbs. 1.73 to 13.48 mkg	.5 ft. lb. units .07 mkg units	15 3/8"	2.30
8088B	1/2"	30 to 250 ft. lbs. 4.8 to 33.9 mkg	1 ft. lb. units .14 mkg units	19 1/2"	2.80
8089B	3/4"	100 to 600 ft. lbs. 17.5 to 79.5 mkg	5 ft. lb. units .7 mkg units	40 7/8"	10.25

STD. PKG. 1

SEE TORQUE CONVERSIONS CHART ON PAGE 77.

IMPORTANT

MICROMETER TORQUE WRENCH RETURN INSTRUCTIONS — REPAIR/RECALIBRATION

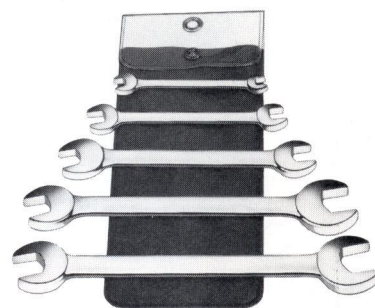
If a micrometer torque wrench does not function properly whether from extended use, abuse, or imperfections in material or workmanship, it should not be returned to seller or factory. It should be sent, prepaid and insured, to the service facility indicated on the instruction sheet received with the tool. If repair charges are necessary, the purchaser will be advised prior to work being performed. Otherwise the tool will be replaced or repaired to the original quality standards and returned promptly without charge.



Set #1000-5 5 PIECE OPEN END WRENCH SET

1020	1/4" x 5/16"	1729	5/8" x 3/4"	8300K	Pouch
1723	3/8" x 7/16"	1029C	1 1/16" x 1 3/16"		
1725B	1/2" x 9/16"				

Std. Pkg. 3—Pkg. Wt. 2.97 Lbs.

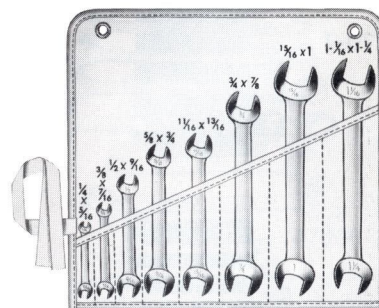


1000-5

Set #1000-8 8 PIECE OPEN END WRENCH SET

1020	1/4" x 5/16"	1029C	1 1/16" x 1 3/16"	1700-8K	Roll Up Kit
1723	3/8" x 7/16"	1731A	3/4" x 7/8"		
1725B	1/2" x 9/16"	1033C	1 5/16" x 1"		
1729	5/8" x 3/4"	1037	1 1/16" x 1 1/4"		

Std. Pkg. 1—Pkg. Wt. 3.85 Lbs.

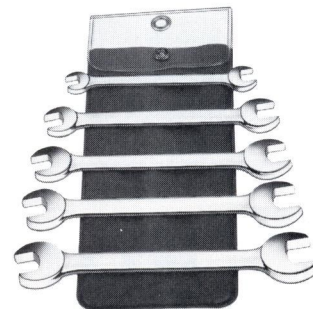


1000-8

Set #43000-5 5 PIECE METRIC OPEN END WRENCH SET

40809A	8 x 9mm	41415A	14 x 15mm	8300K	Pouch
41011A	10 x 11mm	41617A	16 x 17mm		
41213A	12 x 13mm				

Std. Pkg. 3—Pkg. Wt. 2.61 Lbs.

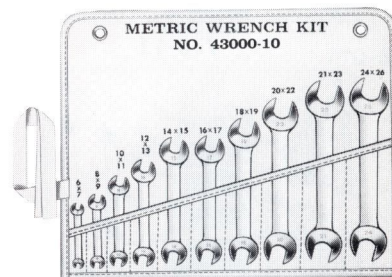


43000-5

Set #43000-10 10 PIECE METRIC OPEN END WRENCH SET

40607A	6 x 7mm	41415A	14 x 15mm	42123A	21 x 23mm
40809A	8 x 9mm	41617A	16 x 17mm	42426A	24 x 26mm
41011A	10 x 11mm	41819A	18 x 19mm		
41213A	12 x 13mm	42022A	20 x 22mm	43000-10K	Roll Up Kit

Std. Pkg. 1—Pkg. Wt. 4.00 Lbs.

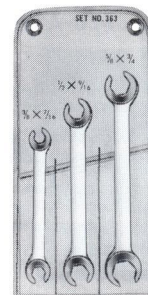


43000-10

Set #363 3 PIECE FLARE NUT WRENCH SET

368	3/8" x 7/16"	370	5/8" x 3/4"	K171	Roll Up Kit
369	1/2" x 9/16"				

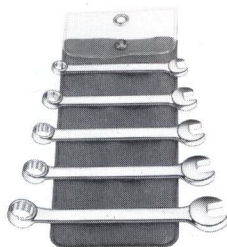
Std. Pkg. 1—Pkg. Wt. 0.95 Lb.



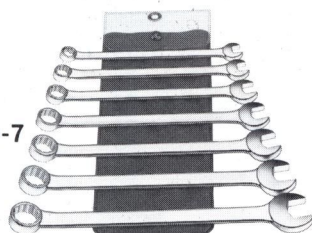
363



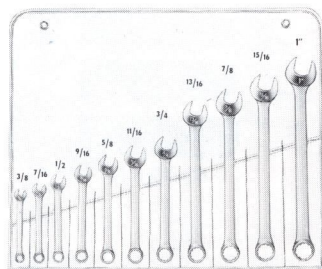
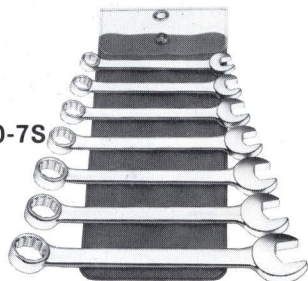
770-5



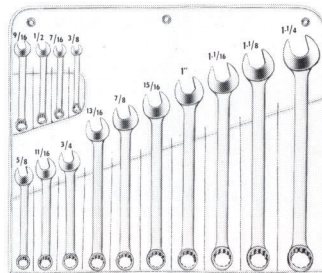
770-7



770-7S

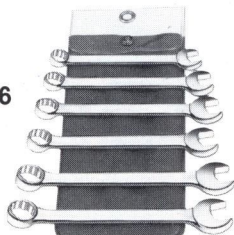


770-11



770-A14

47000-6



Set #770-5 5 PIECE COMBINATION WRENCH SET

768S	5/16"	772S	7/16"	774S	9/16"
771S	3/8"	773S	1/2"	8300K	Pouch

Std. Pkg. 3—Pkg. Wt. 1.83 Lbs.

Set #770-7 7 PIECE LONG COMBINATION WRENCH SET

771	3/8"	774	9/16"	777	3/4"
772	7/16"	775	5/8"	8310K	Pouch
773	1/2"	776	11/16"		

Std. Pkg. 1—Pkg. Wt. 1.75 Lbs.

Set #770-7S 7 PIECE SHORT COMBINATION WRENCH SET

771S	3/8"	774S	9/16"	777S	3/4"
772S	7/16"	775S	5/8"	8310K	Pouch
773S	1/2"	776S	11/16"		

Std. Pkg. 1—Pkg. Wt. 1.48 Lbs.

Set #770-11 11 PIECE COMBINATION WRENCH SET

771S	3/8"	775S	5/8"	778	7/8"
772S	7/16"	776S	11/16"	779	15/16"
773S	1/2"	777S	3/4"	780	1"
774S	9/16"	777B	13/16"	K185	Roll Up Kit

Std. Pkg. 1—Pkg. Wt. 4.08 Lbs.

Set #770-A14 14 PIECE COMBINATION WRENCH KIT

771S	3/8"	776S	11/16"	780	1"
772S	7/16"	777S	3/4"	781	1 1/16"
773S	1/2"	777B	13/16"	782	1 1/8"
774S	9/16"	778	7/8"	783	1 1/4"
775S	5/8"	779	15/16"	K186	Roll Up Kit

Std. Pkg. 1—Pkg. Wt. 8.20 Lbs.

Set #47000-6 6 PIECE METRIC COMBINATION WRENCH SET

44010	10mm	44013	13mm	8300K	Pouch
44011	11mm	44014	14mm		
44012	12mm	44015	15mm		

Std. Pkg. 3—Pkg. Wt. 2.67 Lbs.



Set #47000-8 8 PIECE METRIC COMBINATION WRENCH SET

44009	9mm	44012	12mm	44015	15mm
44010	10mm	44013	13mm	44017	17mm
44011	11mm	44014	14mm	8310K	Pouch

Std. Pkg. 1—Pkg. Wt. 1.21 Lbs.

Set #47000-11 11 PIECE METRIC COMBINATION WRENCH SET

44007	7mm	44011	11mm	44015	15mm
44008	8mm	44012	12mm	44017	17mm
44009	9mm	44013	13mm	44019	19mm
44010	10mm	44014	14mm	8310K	Pouch

Std. Pkg. 1—Pkg. Wt. 1.67 Lbs.

Set #47000-2 14 PIECE METRIC COMBINATION WRENCH SET

44009	9mm	44014	14mm	44019	19mm
44010	10mm	44015	15mm	44020	20mm
44011	11mm	44016	16mm	44021	21mm
44012	12mm	44017	17mm	44022	22mm
44013	13mm	44018	18mm	K192	Roll Up Kit

Std. Pkg. 1—Pkg. Wt. 4.50 Lbs.

Set #710-5 5 PIECE 15° BOX WRENCH SET

711	3/8" x 7/16"	713	9/16" x 5/8"	715	3/4" x 7/8"
712	1/2" x 9/16"	714B	11/16" x 13/16"	2050K	Pouch

Std. Pkg. 3—Pkg. Wt. 5.79 Lbs.

Set #740-6A 6 PIECE 45° BOX WRENCH SET

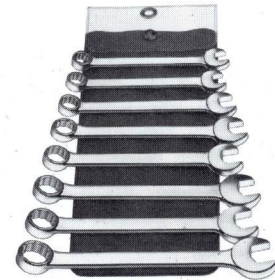
730	3/8" x 7/16"	732C	11/16" x 13/16"	2050K	Pouch
731	1/2" x 9/16"	733A	3/4" x 7/8"		
732B	5/8" x 3/4"	735	15/16" x 1"		

Std. Pkg. 1—Pkg. Wt. 2.73 Lbs.

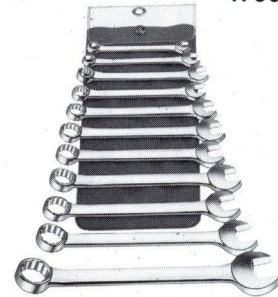
Set #0700-3 3 PIECE RATCHETING BOX WRENCH SET

0702A	3/8" x 7/16"	0705A	5/8" x 3/4"	8300K	Pouch
0703A	1/2" x 9/16"				

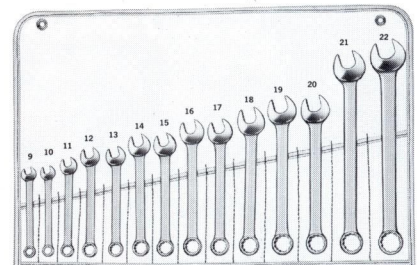
Std. Pkg. 3—Pkg. Wt. 3.84 Lbs.



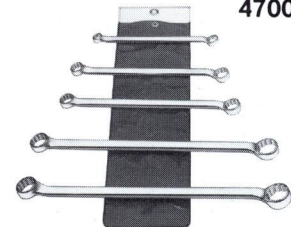
47000-8



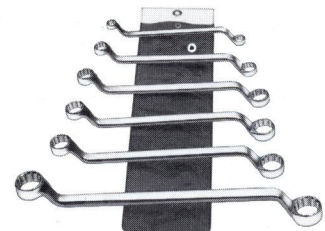
47000-11



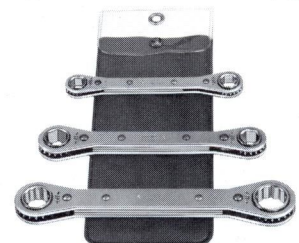
47000-2



710-5



740-6A



0700-3



1020-1037



40607A-42426A



T1A-T4



370C-372B

368-370

OPEN END WRENCHES

Forged from quality steel and heat treated for extra strength. Heads are polished to a mirror finish. Handles have a satin finish. Completely plated in a rich deep chrome.

SAE WRENCHES†

No.	Size	Length	Head Thickness	Pkg. Wt. Lbs.
1020	1/4" x 5/16"	3 7/8"	5/32"	.31
1721	5/16" x 3/8"	4 13/16"	3/16"	.31
1723	3/8" x 7/16"	5"	3/16"	.50
1725	7/16" x 1/2"	5 5/16"	15/64"	.68
1725B	1/2" x 9/16"	6 1/4"	15/64"	1.00
1727	9/16" x 5/8"	6 3/4"	1/4"	1.12
1729	5/8" x 3/4"	8"	19/64"	1.50
1029C	1 1/16" x 1 3/16"	8 1/2"	21/64"	2.25
1731A	3/4" x 7/8"	9 3/16"	11/32"	3.28
1033C	15/16" x 1"	10 5/8"	25/64"	4.00
1036B	1 1/16" x 1 1/8"	12 1/2"	29/64"	*3.80
1037	1 1/16" x 1 1/4"	12 1/2"	29/64"	*3.90

Std. Pkg. 6

*Std. Pkg. 3

METRIC WRENCHES

No.	Size	Length	Head Thickness	Pkg. Wt. Lbs.
40607A	6 x 7	98.4mm	3.96mm	0.31
40809A	8 x 9	122.24mm	4.76mm	0.31
41011A	10 x 11	150.81mm	5.95mm	0.68
41213A	12 x 13	158.75mm	5.95mm	1.00
41415A	14 x 15	171.45mm	6.35mm	1.12
41617A	16 x 17	203.20mm	7.54mm	1.50
41819A	18 x 19	215.90mm	8.33mm	2.25
42022A	20 x 22	233.36mm	8.73mm	3.28
42123A	21 x 23	269.88mm	9.92mm	4.00
42426A	24 x 26	317.50mm	11.51mm	7.80

Std. Pkg. 6

TAPPET WRENCHES‡

No.	Size	Length	Head Thickness	Pkg. Wt. Lbs.
T1A	7/16" x 1/2"	7 1/4"	5/32"	.80
T2	1/2" x 9/16"	7 7/8"	11/64"	.97
T2A	9/16" x 5/8"	7 7/8"	11/64"	1.00
T3	5/8" x 1 1/16"	8 3/8"	3/16"	1.39
T4	3/4" x 7/8"	8 3/4"	7/32"	1.76

Std. Pkg. 6

STRAIGHT PATTERN FLARE NUT WRENCHES

A specially designed wrench for use on brass or other soft metal fittings. End openings offset at 10° angle, will pass over tubing allowing contact of box wrench on flare nut. Made of quality steel. Chrome plated with polished heads.

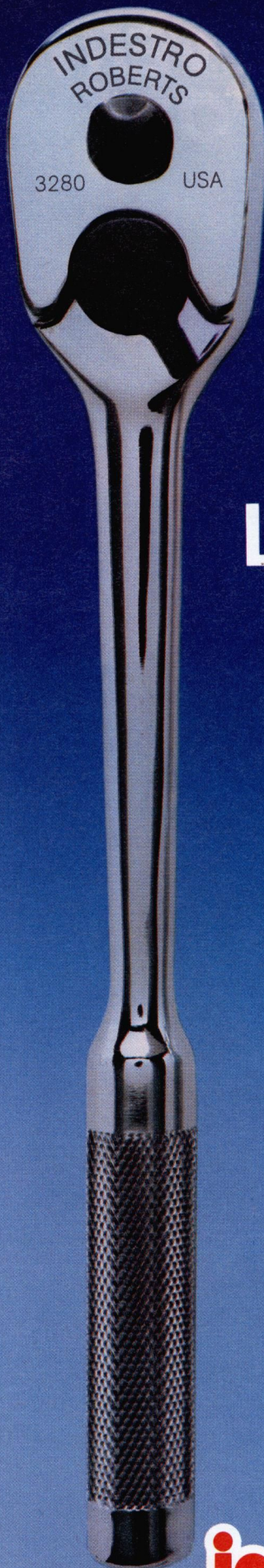
No.	Opening Size		Length	Pkg. Wt. Lbs.
368	3/8" x 7/16"	6 Point	5 1/4"	0.88
369	1/2" x 9/16"	6 Point	6 3/8"	1.73
370	5/8" x 3/4"	6 Point	7 1 1/16"	2.33
370C	5/8" x 13/16"	12 Point	7 1 1/16"	2.13
371	3/4" x 1"	12 Point	8 1/16"	3.04
372	7/8" x 1 1/8"	12 Point	9 5/8"	4.51
372B	15/16" x 1 1/16"	12 Point	9 5/8"	5.00

Std. Pkg. 6

FLARE NUT HEXAGON SIZE

Tubing Size	Old Style Hex. Nut	Wrench No.	New Style Hex. Nut	Wrench No.
3/16"	5/8"	370-370C	1/2"	369
1/4"	3/4"	370-371	5/8"	370-370C
3/8"	7/8"	372	13/16"	370C
1/2"	1"	371	15/16"	372B
5/8"	1 1/8"	372	1 1/16"	372B

EXCLUSIVE!
"SAFETY LOCK"™



SLR

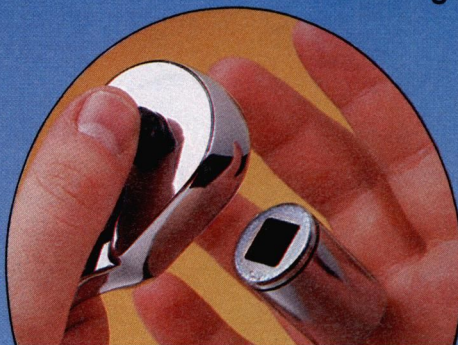
QUICK RELEASE LOCKING RATCHET

Locks the Socket or Fitting
Securely to the Ratchet



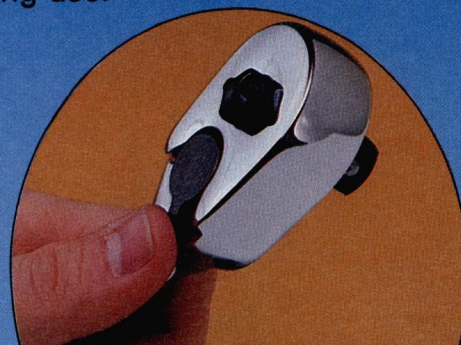
SAFETY LOCK

to eliminate sockets and
fittings from accidentally
falling off during use.



PUSHBUTTON RELEASE

for fast and easy
socket changes.



POSITIVE REVERSING

allows simple one thumb
reversing action.

indestro®

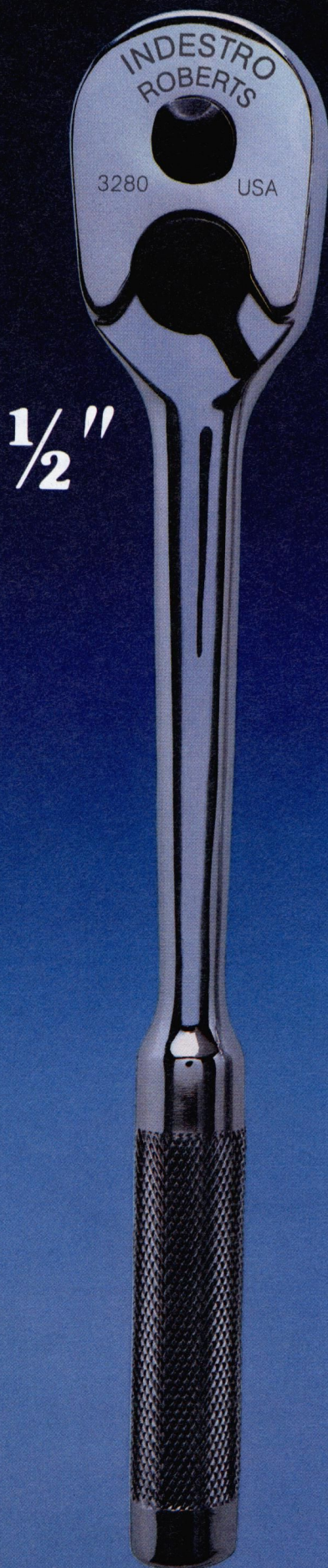
A
DIVISION
OF

DURO METAL PRODUCTS, CO.
2649 N. KILDARE AVE., CHICAGO, IL 60639

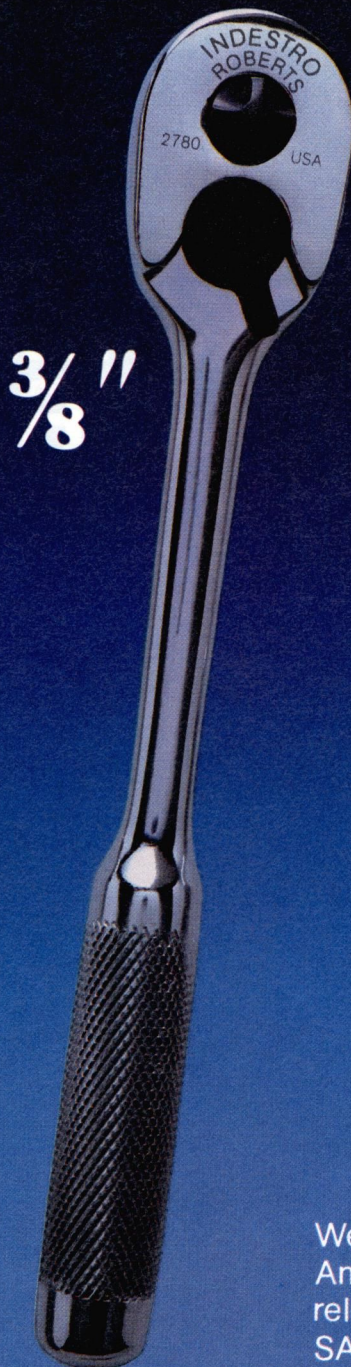
THE ORIGINAL

SLR

**A SIZE
FOR EVERY
PURPOSE**



1/2"



3/8"



1/4"

We are proud to introduce America's original pushbutton release ratchet with our exclusive SAFETY LOCK™. The SLR is designed with the newest patented features to make your selling easier. The American made SLR's are available in 1/4", 3/8" and 1/2" square drive and in stock for immediate delivery.



**SLR QUICK RELEASE, LOCKING RATCHETS**

Oval solid forged head design. Easy pushbutton release. Locking mechanism will hold sockets and fittings securely. Positive one thumb reversing action. Round, knurled handle provides comfortable non-slip grip.

No.	Drive Size	Overall Length	Pkg. Wt. Lbs.
2880	$\frac{1}{4}$ "	5"	1.40
2780	$\frac{3}{8}$ "	7 $\frac{1}{2}$ "	2.90
3280	$\frac{1}{2}$ "	10"	5.75

Std. Pkg. 4 Each

SLR Socket Sets **$\frac{1}{4}$ " DRIVE 16 PIECES WITH BOX-REG. LENGTH SOCKETS****S.A.E.****Set #7608-SLR**

9—6-Pt. Sockets, $\frac{3}{16}$ "- $\frac{1}{2}$ "

3—8-Pt. Sockets, $\frac{1}{4}$ "- $\frac{3}{8}$ "

1—2" Extension

1—6" Spinner Handle

1—SLR Reversible Ratchet

1—Metal Tool Box

Std. Pkg. 1—Pkg. Wt. 1.41 Lbs.

Metric**Set #7622M-SLR (15 Pieces)**

11—6-Pt. Sockets, 4mm-13mm

1—6" Extension

1—6" Spinner Handle

1—SLR Reversible Ratchet

1—Metal Tool Box

Std. Pkg. 1—Pkg. Wt. 1.47 Lbs.

 $\frac{1}{4}$ " DRIVE 22 PIECES WITH BOX-REG. DEEP SOCKETS**S.A.E.****Set #7610-SLR**

9—6-Pt. Sockets, $\frac{3}{16}$ "- $\frac{1}{2}$ "

7—6-Pt. Deep Sockets, $\frac{1}{4}$ "- $\frac{1}{2}$ "

1—2" Extension

1—6" Extension

1—Universal Joint

1—6" Spinner Handle

1—SLR Reversible Ratchet

1—Metal Tool Box

Std. Pkg. 1—Pkg. Wt. 2.37 Lbs.

Metric**Set #7623M-SLR**

10—6-Pt. Sockets, 4mm-12mm

7—6-Pt. Deep Sockets, 6mm-12mm

1—6" Extension

1—Universal Joint

1—6" Spinner Handle

1—SLR Reversible Ratchet

1—Metal Tool Box

Std. Pkg. 1—Pkg. Wt. 2.32 Lbs.

 $\frac{3}{8}$ " DRIVE 12 PIECES WITH BOX-REG. LENGTH SOCKETS**S.A.E.****Set #7715-SLR**

9—6-Pt. Sockets, $\frac{3}{8}$ "- $\frac{7}{8}$ "

1—3" Extension

1—SLR Reversible Ratchet

1—Metal Tool Box

Std. Pkg. 1—Pkg. Wt. 2.78 Lbs.

Metric**Set #7777M-SLR**

2—6-Pt. Sockets, 8mm-9mm

7—12 Pt. Sockets, 10mm-17mm

1—3" Extension

1—SLR Reversible Ratchet

1—Metal Tool Box

Std. Pkg. 1—Pkg. Wt. 2.46 Lbs.

 $\frac{3}{8}$ " DRIVE 21 PIECES WITH BOX-REG. & DEEP SOCKETS**S.A.E.****Set #7720-SLR**

9—6-Pt. Sockets, $\frac{3}{8}$ "- $\frac{7}{8}$ "

8—6-Pt. Deep Sockets, $\frac{3}{8}$ "- $\frac{13}{16}$ "

1—3" Extension

1—6" Extension

1—SLR Reversible Ratchet

1—Metal Tool Box

Std. Pkg. 1—Pkg. Wt. 5.85 Lbs.

Metric**Set #7779M-SLR**

3—6-Pt. Sockets, 7mm-9mm

8—12-Pt. Sockets, 10mm-17mm

7—6-Pt. Deep Sockets, 10mm-17mm

1—3" Extension

1—SLR Reversible Ratchet

1—Metal Tool Box

Std. Pkg. 1—Pkg. Wt. 4.63 Lbs.



7608-SLR
7622M-SLR



7610-SLR
7623M-SLR



7715-SLR
7777M-SLR



7720-SLR
7779M-SLR

1/4" & 3/8" DRIVE 18 PIECES WITH BOX-REG. LENGTH SOCKETS

S.A.E.

Set #7723-SLR

6—1/4" Dr. 6-Pt. Skts., 3/16"-11/32"
7—3/8" Dr. 6-Pt. Skts., 3/8"-3/4"
1—Adaptor, 1/4" M x 3/8" F
1—1/4" Dr. 6" Spinner Handle
1—3/8" Dr. 3" Extension
1—3/8" Dr. SLR Reversible Ratchet
1—Metal Tool Box
Std. Pkg. 1—Pkg. Wt. 2.88 Lbs.

Metric

Set #7780M-SLR

7—1/4" Dr. 6-Pt. Skts., 4mm-9mm
6—3/8" Dr. 6-Pt. Skts., 10mm-17mm
1—Adaptor, 1/4" M x 3/8" F
1—1/4" Dr. 6" Spinner Handle
1—3/8" Dr. 3" Extension
1—3/8" Dr. SLR Reversible Ratchet
1—Metal Tool Box
Std. Pkg. 1—Pkg. Wt. 2.66 Lbs.



7723-SLR
7780M-SLR

1/2" DRIVE 17 PIECES WITH BOX-REG. LENGTH SOCKETS

S.A.E.

Set #7828-SLR

3—6-Pt. Sockets, 7/16"-9/16"
10—12-Pt. Sockets, 5/8"-1 1/4"
1—6" Extension
1—15 1/2" Swing Head Handle
1—SLR Reversible Ratchet
1—Metal Tool Box
Std. Pkg. 1—Pkg. Wt. 8.62 Lbs.

Metric

Set #7876M-SLR

13—12-Pt. Sockets, 10mm-24mm
1—6" Extension
1—15 1/2" Swing Head Handle
1—SLR Reversible Ratchet
1—Metal Tool Box
Std. Pkg. 1—Pkg. Wt. 7.52 Lbs.



7828-SLR
7876M-SLR

SLR Merchandisers

POINT OF PURCHASE WALL DISPLAYS

SLR SOCKET SET WALL DISPLAY

One each of the six SLR socket sets in either S.A.E. or Metric, displayed on a colorful, 24" X 24" merchandising panel. Pilfer-proof wire rack hangers.

S.A.E.

ITEM NUMBER

5178

DESCRIPTION

Tools Only

5178-1

Panel Only

METRIC

5179

Tools Only

5179-1

Panel Only

SLR RATCHET MERCHANDISER

Colorful wire rack merchandiser is designed for countertop or pegboard display. A packet of SLR instruction brochures accompanies each unit and is properly displayed in a "TAKE ONE" pocket. Full color, wrap-around hang card allows the end user to hold and operate the SLR ratchet without damaging the colorful packaging.

#5194 Complete SLR Merchandiser Contains:

- | | |
|---|----------------------------|
| 1—2 piece wire rack
for counter or wall mounting | 2—1/4" Drive SLR ratchets* |
| 1—Color backdrop with literature holder | 4—3/8" Drive SLR ratchets* |
| 1—Bundle of ratchet brochures | 2—1/2" Drive SLR ratchets* |
| | *on hanger cards |

Std. Pkg. 1—Pkg. Wt. 10.0 Lbs.





COMBINATION WRENCHES

All of the features of the box and open end wrenches are combined in one wrench. Both ends have same size openings. Box end is offset 10° for clearance and the open end is at a 15° angle for positive nut turning in restricted space. Forged from quality steel, each wrench is brightly chrome plated.

SHORT HANDLE SERIES††

No.	Size	Length	Open End Head Th.	Pkg. Wt. Lbs.	No.	Size	Length	Open End Head Th.	Pkg. Wt. Lbs.
6 Point									
767S	1/4"	3 3/4"	5/32"	0.26	774S	9/16"	6 3/8"	1/4"	1.26
768S	5/16"	4 1/4"	11/64"	0.35	775S	5/8"	7 1/16"	9/32"	1.53
771S	3/8"	4 3/4"	13/64"	0.50	776S	11/16"	7 11/16"	19/64"	1.68
772S	7/16"	5 3/16"	7/32"	0.67	777S	3/4"	8 1/4"	5/16"	2.36
773S	1/2"	5 3/4"	15/64"	0.93					

Std. Pkg. 6

LONG HANDLE SERIES††

No.	Size	Length	Open End Head Th.	Pkg. Wt. Lbs.	No.	Size	Length	Open End Head Th.	Pkg. Wt. Lbs.
6 Point					12 Point				
771	3/8"	7"	3/16"	0.64	781	1 1/16"	14 1/4"	13/32"	3.41
					782	1 1/8"	15 1/4"	7/16"	4.00
					783	1 1/4"	16 1/4"	29/64"	5.00
					783-42	1 5/16"	18"	5/8"	2.50
772	7/16"	7 3/16"	13/64"	0.91	783-44	1 3/8"	19"	11/16"	2.75
773	1/2"	7 11/16"	7/32"	1.31	783-46	1 7/16"	20"	23/32"	3.25
774	9/16"	8 1/4"	15/64"	1.48	783-48	1 1/2"	21"	3/4"	3.88
775	5/8"	8 7/8"	1/4"	1.75	783-52	1 5/8"	24"	13/16"	5.50
776	11/16"	9 3/8"	9/32"	2.23	783-54	1 11/16"	24"	13/16"	5.50
777	3/4"	10 1/8"	19/64"	2.64	783-56	1 3/4"	27"	7/8"	7.50
777B	13/16"	10 1/2"	11/32"	3.00	783-58	1 13/16"	27"	7/8"	7.50
778	7/8"	11 3/8"	23/64"	3.68	783-60	1 7/8"	29"	15/16"	9.50
779	15/16"	12 5/16"	3/8"	4.55	783-64	2"	29"	15/16"	9.50
780	1"	13 5/16"	25/64"	5.00					

Std. Pkg.: 6 — Nos. 771 to 780 3 — Nos. 781 to 783 1 — 783-42 to 783-64

METRIC‡

No.	Size	Length/mm	Open Head Th. mm	Pkg. Wt. Lbs.	No.	Size	Length/mm	Open Head Th. mm	Pkg. Wt. Lbs.
6 Point					12 Point				
44006	6	95.25	3.97	0.50	44016	16	179.39	7.14	1.50
44007	7	95.25	3.97	0.50	44017	17	179.39	7.14	1.50
44008	8	107.95	4.37	0.50	44018	18	195.26	7.54	1.88
44009	9	120.65	5.16	0.50	44019	19	209.55	7.94	2.13
					44020	20	209.55	7.94	2.13
					44021	21	266.70	8.73	2.75
44010	10	120.65	5.16	0.50	44022	22	288.93	9.13	3.37
44011	11	131.76	5.56	0.75	44023	23	288.93	9.13	3.37
44012	12	146.05	5.95	0.88	44024	24	312.74	9.53	3.50
44013	13	146.05	5.95	0.88	44026	26	338.14	9.92	3.75
44014	14	161.93	6.35	1.13					
44015	15	161.93	6.35	1.13					

Std. Pkg. 6





751-753A



711-716



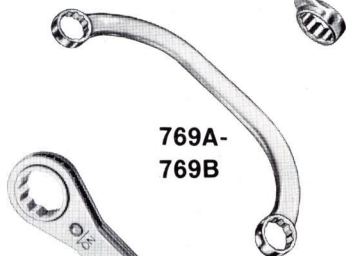
741-743A



730-757



769A-
769B



0701A-0708A



BOX WRENCHES

Forged from quality steel and heat treated for extra strength. Heads are polished to a mirror finish. Handles have a satin finish. Completely plated in a rich deep chrome.

SHORT 15° PATTERN‡

No.	Size	Length	Pkg. Wt. Lbs.	No.	Size	Length	Pkg. Wt. Lbs.
6 Point				12 Point			
751	3/8" x 7/16"	4 1/8"	0.54	752	1/2" x 9/16"	4 3/4"	0.78
				753A	5/8" x 3/4"	5 7/16"	1.00

Std. Pkg. 6

LONG 15° PATTERN‡

6 Point				713	9/16" x 5/8"	9 9/16"	1.94
711	3/8" x 7/16"	6 3/4"	1.00	713B	5/8" x 3/4"	10 5/8"	2.04
12 Point				714B	1 1/16" x 13/16"	11 7/8"	3.25
711A	7/16" x 1/2"	7 5/8"	1.19	715	3/4" x 7/8"	13 1/4"	3.88
712	1/2" x 9/16"	8 5/8"	1.54	716	15/16" x 1"	16 1/8"	6.06

Std. Pkg. 6

SHORT 45° PATTERN‡

6 Point				12 Point			
741	3/8" x 7/16"	4 3/4"	0.74	742	1/2" x 9/16"	5 1/2"	0.98
				743A	5/8" x 3/4"	6"	1.43

Std. Pkg. 6

LONG 45° PATTERN‡‡

6 Point				732	5/8" x 1 1/16"	10"	2.23
730	3/8" x 7/16"	7 1/8"	1.00	732B	5/8" x 3/4"	10 1/16"	2.27
12 Point				732C	1 1/16" x 13/16"	10 1/2"	2.74
730A	7/16" x 1/2"	8 3/16"	1.28	733A	3/4" x 7/8"	11 5/16"	3.39
731	1/2" x 9/16"	8 3/16"	1.28	735	15/16" x 1"	14 9/16"	5.33
731A	9/16" x 5/8"	9 3/8"	1.76	757	1 1/16" x 1 1/8"	16 1/4"	*3.92

Std. Pkg. 6

*Std. Pkg. 3

STARTER AND MANIFOLD WRENCHES‡

A 12 point special shaped wrench designed to reach into areas that are not readily accessible with a straight pattern wrench.

No. 769B—1/2" x 9/16"

Std. Pkg. 6—Pkg. Wt. 1.98 Lbs.

No. 769A—5/8" x 3/4"

Std. Pkg. 6—Pkg. Wt. 2.71 Lbs.

RATCHETING BOX WRENCHES§

No.	Size	Length	Head Thickness	Pkg. Wt. Lbs.	No.	Size	Length	Head Thickness	Pkg. Wt. Lbs.
6 Point					12 Point				
0701A	1/4" x 5/16"	4 1/4"	3/8"	0.75	0704A	5/8" x 1 1/16"	8"	1/2"	4.00
0702A	3/8" x 7/16"	5 1/2"	3/8"	1.13	0705A	5/8" x 3/4"	8"	1/2"	4.00
0703A	1/2" x 9/16"	6 3/4"	1/2"	2.50	0708A	13/16" x 7/8"	9 1/4"	1/2"	4.75

Std. Pkg. 6



REFRIGERATION RATCHETING BOX WRENCHES

These specially designed wrenches are double broached on each end. Made for use with refrigeration and air conditioning equipment. See more Refrigeration Tools on pages 73-75.

No.	Sizes	Length	Pkg. Wt. Lbs.
0712	1/4" Sq. + 3/8" Sq. x 3/16" Sq. + 5/16" Sq.	5 9/16"	1.40
0714	1/4" Sq. + 3/16" Sq. x 1/2" Hex + 9/16" Hex	6 13/16"	2.80

Std. Pkg. 6

ADJUSTABLE WRENCHES

Close tolerance machining of the moving parts result in smooth operation. Jaws are parallel at all adjustments. Made of alloy steel, hardened and heat treated. Available with chrome plated finish or industrial black finish. Conforms to Federal Specification GGG-W-331.

CHROME PLATED FINISH

No.	Old No.	Length	Max. Jaw Opening	Pkg. Wt. Lbs.
2085A	3585A	4"	1/2"	0.10
2086A	3586A	6"	3/4"	0.27
2087A	3587A	8"	1"	0.54
2088A	3588A	10"	1 1/8"	0.92
2089A	3589A	12"	1 9/16"	1.63
2090A	3590A	15"	1 11/16"	3.31
2091A	3591A	18"	2 1/16"	6.00
2092A	3592A	24"	2 11/16"	9.00

Std. Pkg. 1

BLACK FINISH

No.	Old No.	Length	Max. Jaw Opening	Pkg. Wt. Lbs.
2076	3576	6"	3/4"	0.28
2077	3577	8"	1"	0.55
2078	3578	10"	1 1/8"	0.94
2079	3579	12"	1 9/16"	1.65
2080	3580	15"	1 11/16"	3.36

Std. Pkg. 1

PIPE WRENCHES—HEAVY DUTY TYPE

Perfectly balanced for ease of operation. Outstanding features include, easy adjustment, calibrated hook jaw and a patented double action spring for faster and easier bit, ratchet and release. Made of alloy steel scientifically designed for maximum strength. Steel jaws are forged and heat treated to just the right hardness. Conforms to Federal Specification GGG-W-651. Made in USA.

No.	Length	Pipe Capacity	Pkg. Wt. Lbs.
3528A	8"	1/8" to 1"	4.50
3530A	10"	1/8" to 1 1/2"	10.50
3532A	14"	1/4" to 2"	21.00
3534A	18"	1/4" to 2 1/2"	34.50
3536A	24"	1/4" to 3"	58.50

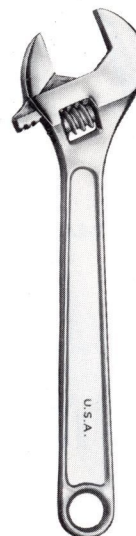
Std. Pkg. 6



0712



0714



2085A-
2092A



2076-
2080



3528A-3536A



2110A



2142



2143



2144



2145



2146



3441-3443



2096A-2098A

No. 2110A IGNITION PLIERS

A quality forged alloy steel ignition type plier. Opening to 9/16" from closed position in 4 adjustments. Chrome plated. Federal Specification GGG-P-471.

Std. Pkg. 6—Pkg. Wt. 0.77 Lb.

MIDGET PLIERS

Designed for all types of electronic work and other uses where the working area is limited. Made of fine quality alloy steel. Cutting edges are scientifically heat treated to the correct hardness. Jaws are spring tempered. Heads have ground finish, nose is polished. Handles have bonded vinyl grips for comfort only and are not intended as insulation against electrical shock.

No. 2142 FLAT NOSE MIDGET PLIER

Flat nose, scored jaws. Length 4". Federal Specification GGG-P-00471.

Std. Pkg. 1—Pkg. Wt. 0.25 Lb.

No. 2143 CHAIN NOSE MIDGET PLIER

Narrow tapered, scored jaws. Length 4". Federal Specification GGG-P-00471.

Std. Pkg. 1—Pkg. Wt. 0.25 Lb.

No. 2144 DIAGONAL CUTTING MIDGET PLIER

Narrow cutting jaws. Length 4". Federal Specification GGG-P-00468.

Std. Pkg. 1—Pkg. Wt. 0.25 Lb.

No. 2145 END CUTTING MIDGET NIPPERS

Sharp strong cutting edges. Length 4 1/2". Federal Specification GGG-N-350.

Std. Pkg. 1—Pkg. Wt. 0.37 Lb.

No. 2146 ROUND NOSE LOOPING MIDGET PLIER

Round nose, round jaws. Length 4 1/2". Federal Specification GGG-P-00471.

Std. Pkg. 1—Pkg. Wt. 0.26 Lb.

RIDGE JOINT PLIERS

Handy tools for use on fittings, pipe and general utility service. Jaws are locked in position by the ridge joint design and cannot slip under any pressure. Chrome plated. Vinyl plastic grips. Federal Specification GGG-P-471.

No. 3441—Length 6 1/2"—Cap. 0-3/4"

Std. Pkg. 1—Pkg. Wt. 0.36 Lb.

No. 3442—Length 10"—Cap. 0-1 1/2"

Std. Pkg. 1—Pkg. Wt. 0.90 Lb.

No. 3443—Length 12"—Cap. 0-2 5/8"

Std. Pkg. 1—Pkg. Wt. 1.43 Lbs.

SLIP JOINT PLIERS

Extra hard, deep, sharply cut teeth for greater grip and longer wear. Lobster claw teeth design provides two gripping sections, one extra wide for large objects, the other for small work. All have shear wire cutters and plastic grips. Federal Specification GGG-P-471.

No. 2096A—Length 6 1/2"

Std. Pkg. 6—Pkg. Wt. 2.50 Lbs.

No. 2097A—Length 8"

Std. Pkg. 6—Pkg. Wt. 3.34 Lbs.

No. 2098A—Length 10"

Std. Pkg. 6—Pkg. Wt. 4.25 Lbs.



No. 2103A (Old No. 3403A) WATER PUMP PLIER

A forged steel plier with 7 positions from closed to opening of 2 1/8". Plastic Grip Handles chrome plated. Length 10". Federal Specification GGG-P-471.

Std. Pkg. 6—Pkg. Wt. 3.76 Lbs.

No. 2106 DIAGONAL CUTTING PLIER

Accurately forged, tempered and ground cutting edges assure long, satisfactory service. Alloy steel with polished head. Comfortable vinyl plastisol grips bonded to handles. Length 6 1/4". Federal Specification GGG-P-00468.

Std. Pkg. 1—Pkg. Wt. 0.39 Lb.

No. 2107 HEAVY DUTY CUTTING PLIER

Of heavier construction, with cutting edges tempered to cut piano wire, making it popular with mechanics working on manual control wires. Forged alloy steel. Polished head. Comfortable vinyl plastisol grips bonded to handles. Length 7 1/2". Federal Specification GGG-P-00468.

Std. Pkg. 1—Pkg. Wt. 0.43 Lb.

No. 2108 DUCK BILL PLIER

Broad, flat point makes this plier indispensable for straightening fins on heaters, condensers, evaporators, etc. Also popular with mechanics and electricians for pulling wire. Cross grooved in jaws for firm grip. Forged alloy steel with polished head. Handles complete with bonded vinyl plastisol grips. Length 8". Federal Specification GGG-P-471.

Std. Pkg. 1—Pkg. Wt. 0.44 Lb.

No. 2109 (Old No. 2129) NEEDLE NOSE PLIER

Just the plier for reaching into tight places. Strong thin jaws with broad curved handles affords firm grip with complete comfort. Jaws are cross grooved for holding power. Forged alloy steel with polished head. Handles have bonded vinyl plastisol grips. Length 8". Federal Specification GGG-P-471.

Std. Pkg. 1—Pkg. Wt. 0.34 Lb.

No. 2111 LONG NOSE CUTTING PLIERS

The long thin jaws make this plier popular with mechanics, electricians and especially radio and television workers. Strong accurately matched cutting edges. Jaws are cross grooved for holding power. Forged alloy steel with polished heads. Handles have bonded vinyl plastisol grips. Length 6 3/8". Federal Specification GGG-P-471.

Std. Pkg. 1—Pkg. Wt. 0.34 Lb.

No. 2124A LINEMAN'S SIDE CUTTING PLIER

A heavy duty alloy steel plier used primarily in electrical maintenance and wiring. Strong perfectly matched cutting edges; polished heads. Handles have bonded vinyl plastisol grips. Length 7 3/8". Federal Specification GGG-P-471.

Std. Pkg. 1—Pkg. Wt. 0.66 Lb.

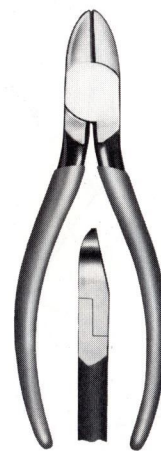
No. 2131 EXTRA HEAVY DUTY CUTTING PLIER

An extra sturdy cutting plier forged from alloy steel for increased strength and toughness. Scientifically hardened edges are strong and sharp. Will give long service on heavy duty jobs. Handles have bonded vinyl plastisol grips. Length 7". Federal Specification GGG-P-00468.

Std. Pkg. 1—Pkg. Wt. 0.62 Lb.



2103A



2106



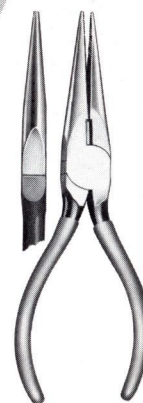
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2108



2109



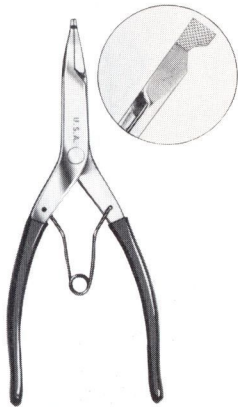
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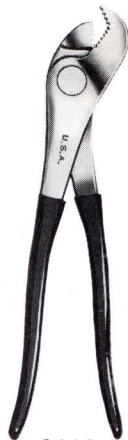
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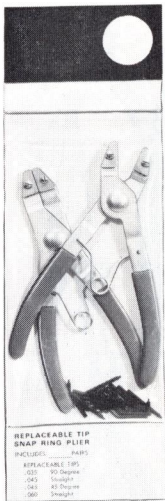
2131



2112



2116



2117



2118



2119



2118-1-2-3-4



2127



2166



3434

No. 2112 (Old No. 2132) LOCK RING PLIERS

Lock rings are easily removed with this tool. Jaws scored on outside to prevent slipping. Spring holds jaws in closed position. Forged alloy steel, polished jaws, chrome plated. Plastic grips. Jaw opening 1½". Length 9". Std. Pkg. 1—Pkg. Wt. 0.50 Lb.

No. 2116 (Old No. 3416) BATTERY PLIER

Three sets of teeth are broached clean with sufficient depth for good gripping power on corroded or undersized battery terminal nuts. Polished jaws, chrome plated, plastic grips. Length 7½". Federal Specification GGG-P-471. Std. Pkg. 6—Pkg. Wt. 2.71 Lbs.

No. 2117 SNAP RING PLIER SET

Contains two interchangeable-tip pliers and an assortment of tips to cover a wide range of Snap Ring applications for external and internal use. Vinyl plastic grips are bonded to handles. Set is contained in vinyl plastic kit. Std. Pkg. 1—Pkg. Wt. 1.25 Lbs.

SNAP RING PLIERS

Available in two types, External and Internal. Designed for use with Interchangeable Tips listed below (not included). Tips are securely held in place regardless of hard use. Made of fine quality steel, brightly plated, with vinyl plastisol grips. Length 6¼".

No. 2118—Internal Type

Std. Pkg. 1—Pkg. Wt. 0.50 Lb.

No. 2119—External Type

Std. Pkg. 1—Pkg. Wt. 0.60 Lb.

INTERCHANGEABLE TIPS—FOR SNAP RING PLIERS

For use with Nos. 2118 and 2119 Snap Ring Pliers listed above. The three basic diameters listed here will handle a wide variety of rings, both internal and external on shafts ⅜" to 1¼" diameter. Tip selection is made on the basis of the "P" hole diameter in the lug of the ring. Made of fine quality steel, heat treated for maximum toughness.

NO.	2118-1	2118-2	2118-3	2118-4
DIAMETER	.035"	.045"	.045"	.060"
SHAPE	90° Angle	45° Angle	Straight	Straight
STD. PKG.	12	12	12	12

No. 2127 BRAKE SPRING PLIERS

Designed for removing and installing brake springs. Pointed jaw holds brake shoe in line while hook draws spring into position. One handle has a cam on the end which releases spring from anchor post merely by turning. Other handle is grooved to slip spring over anchor post. Made of forged steel and completely chrome plated. Length 12".

Std. Pkg. 3—Pkg. Wt. 2.81 Lbs.

No. 2166 (Old No. 3432) GRIP ALL WRENCH

An all purpose wrench that securely grips and holds when jaws are locked in place. Has trigger release lever which unlocks jaws with a flick of the finger. Jaws are adjustable upto 1¼". Made of alloy steel, jaws are heat treated for maximum strength. Rust resistant plated finish. Length 10". Federal Specification GGG-P-471.

Std. Pkg. 1—Pkg. Wt. 1.24 Lbs.

No. 3434 SPARK PLUG TERMINAL PLIER

For removing bare spark plug terminal with engine running without danger of electrical shock. The small indentation on the end of the insulated jaw, securely grips terminal wire for easy removal or connecting. Designed and tested to withstand voltages far in excess of those encountered in engine tune-up work. Handles and jaws are insulated for double protection. Length 7½".

Std. Pkg. 1—Pkg. Wt. 0.30 Lb.

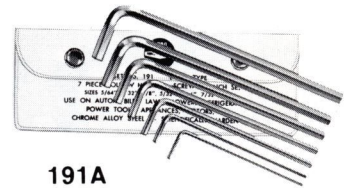


Hexagon type for hollow head set screws. Made of fine quality alloy steel and scientifically hardened. Each size is made to the exact tolerance for a perfect screw fit. Brightly plated finish.

No. 191A (Set In Vinyl Pouch) 7 PIECE SET—LONG LENGTHS

The most frequently used long type wrenches are offered in this popular priced, plastic pouch set. Sizes are: $\frac{5}{64}$ " , $\frac{3}{32}$ " , $\frac{1}{8}$ " , $\frac{5}{32}$ " , $\frac{3}{16}$ " , $\frac{7}{32}$ " , $\frac{1}{4}$ " .

Std. Pkg. 6—Pkg. Wt. 2.00 Lbs.

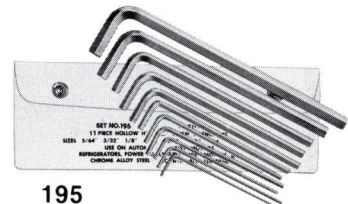


191A

No. 195 (Set in Vinyl Pouch) 11 PIECE SET—LONG LENGTHS

A complete range of long type wrenches packed in a plastic pouch. Sizes are: $\frac{5}{64}$ " , $\frac{3}{32}$ " , $\frac{7}{64}$ " , $\frac{1}{8}$ " , $\frac{9}{64}$ " , $\frac{5}{32}$ " , $\frac{3}{16}$ " , $\frac{7}{32}$ " , $\frac{1}{4}$ " , $\frac{5}{16}$ " , $\frac{3}{8}$ " .

Std. Pkg. 6—Pkg. Wt. 6.00 Lbs.

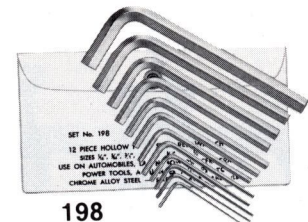


195

No. 198 (Set In Vinyl Pouch) 12 PIECE SET—REGULAR LENGTHS

A complete range of wrenches packed in a plastic pouch. Sizes are: $\frac{1}{16}$ " , $\frac{5}{64}$ " , $\frac{3}{32}$ " , $\frac{7}{64}$ " , $\frac{1}{8}$ " , $\frac{9}{64}$ " , $\frac{5}{32}$ " , $\frac{3}{16}$ " , $\frac{7}{32}$ " , $\frac{1}{4}$ " , $\frac{5}{16}$ " , $\frac{3}{8}$ " .

Std. Pkg. 6—Pkg. Wt. 3.75 Lbs.

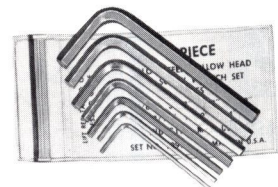


198

No. 199A (Set In Vinyl Pouch) 7 PIECE SET—REGULAR LENGTHS

Contains seven popular sizes— $\frac{5}{64}$ " , $\frac{3}{32}$ " , $\frac{1}{8}$ " , $\frac{5}{32}$ " , $\frac{3}{16}$ " , $\frac{7}{32}$ " , $\frac{1}{4}$ " .

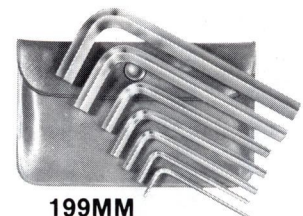
Std. Pkg. 6—Pkg. Wt. 1.25 Lbs.



199A

No. 199MM (Set In Pouch) 7-PIECE SET—METRIC SIZES BLACK FINISH
Regular length, accurately sized in millimeters. For use on Foreign made cars, motorcycles, and machinery. Black finish. Set contains the following sizes: 2mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm. Furnished in a durable, snap open, vinyl pouch.

Std. Pkg. 6—Pkg. Wt. 2.88 Lbs.



199MM



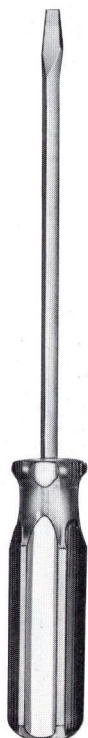
136



3603-
3616



3721-
3731



3702-
3749



4688-
4689



4681-
4684



4649



4640-4642



4694-
4695



SLOTTED TYPE SCREWDRIVERS

Blades are made of alloy steel and precision milled for a perfect screw fit. Polished and chrome plated. Shockproof plastic handles.

ROUND BLADE TYPE

No.	Blade Dimensions			Overall Length	Std. Pkg.	Pkg. Wt. Lbs.
	Stock	Length	Tip Width			
+ 136	1/8"	2"	9/64"	4 1/16"	12	0.38
3603	1/8"	3"	1/8"	6 1/16"	6	0.28
3614	3/16"	4"	3/16"	7 13/16"	6	0.69
3616	3/16"	6"	3/16"	9 13/16"	6	1.03

+ With Pocket Klip

SQUARE BLADE TYPE

No.	Blade Dimensions			Overall Length	Std. Pkg.	Pkg. Wt. Lbs.
	Stock	Length	Tip Width			
3702	1/8"	2"	1/8"	5 1/16"	6	0.28
3703	1/8"	3"	1/8"	6 1/16"	6	0.30
3711	3/16"	1 9/16"	3/16"	4 9/16"	6	0.50
3713	3/16"	3"	3/16"	6 3/4"	6	0.92
3714	3/16"	4"	3/16"	7 3/4"	6	0.99
3716	3/16"	6"	3/16"	9 3/4"	6	1.12
*3721	1/4"	1 1/4"	19/64"	3"	6	0.43
3722	1/4"	2"	19/64"	6 1/8"	6	1.29
3724	1/4"	4"	19/64"	8 1/8"	6	1.49
3726	1/4"	6"	19/64"	10 1/8"	6	1.71
3728	1/4"	8"	19/64"	12 1/8"	6	1.93
*3731	5/16"	1 1/4"	3/8"	3 5/16"	6	0.86
3736	5/16"	6"	3/8"	10 1/4"	4	1.62
3738	5/16"	8"	3/8"	12 1/4"	4	1.86
3746	3/8"	6"	7/16"	10 1/4"	2	1.04
3748	3/8"	8"	7/16"	12 1/4"	2	1.18
3749	3/8"	10"	7/16"	14 1/4"	2	1.36

*Stubby Handle Type

PHILLIPS HEAD SCREWDRIVERS

No.	Point Size	Blade Length	Overall Length	Std. Pkg.	Pkg. Wt. Lbs.
4681	1	3"	6 5/8"	6	0.73
4682	2	4"	7 3/4"	6	1.23
4683	3	6"	10 1/8"	4	1.33
4684	4	8"	12 1/4"	2	1.89
*4688	1	1 1/4"	3"	6	0.48
*4689	2	1 1/2"	3 9/16"	6	0.79

*Stubby Handle Type

CLUTCH HEAD SCREWDRIVERS

No.	Point Size	Blade Length	Overall Length	Std. Pkg.	Pkg. Wt. Lbs.
4640	5/32"	4"	7 5/8"	6	0.76
4641	3/16"	4"	7 3/4"	6	0.88
4642	1/4"	6"	10 1/8"	6	1.80
*4649	5/32"	1 1/2"	3 1/4"	6	0.48

*Stubby Handle Type

REVERSIBLE SCREWDRIVERS

Two-in-one screwdrivers with detachable blades that can be reversed for the required bit size. A special clutch secures blade in handle.

No.	Blade Size & Description	Std. Pkg.	Pkg. Wt. Lbs.
4694	3/16" x #1 Point Phillips	6	2.00 Lbs.
4695	1/4" x #2 Point Phillips	6	2.75 Lbs.



Set #4600-4 4 PIECE PHILLIPS SCREWDRIVER SET

4681	#1 x 3"	4683	#3 x 6"	8310K	Pouch
4682	#2 x 4"	4689	#2 Stubby		

Std. Pkg. 1—Pkg. Wt. 0.75 Lb.

Set #3700-6 6 PIECE SCREWDRIVER SET

136	1/8" x 2" w/clip	3736	5/16" x 6"	8310K	Pouch
3614	3/16" x 4"	4681	#1 Phillips x 3"		
3724	1/4" x 4"	4682	#2 Phillips x 4"		

Std. Pkg. 1—Pkg. Wt. 1.09 Lbs.

PHILLIPS HEAD DOUBLE OFFSET SCREWDRIVERS

No.	Point Size	Length	Std. Pkg.	Pkg. Wt. Lbs.
4656-12	1 and 2	4 3/4"	6	0.48
4656-23	2 and 3	5 3/8"	6	0.93

DOUBLE END OFFSET SCREWDRIVERS

4771A	1/8"	3 3/16"	9/64"	6	0.12
4771	3/16"	3 15/16"	13/64"	6	0.29
4772	1/4"	4 3/4"	19/64"	6	0.57
4773	5/16"	5 5/8"	31/64"	6	1.04

SCREW STARTERS

Time saving tools for handling short screws in tight places. Starts or removes all size screws in difficult, inaccessible places. Grips the screw inside the screw slot with a 15 pound pull. Releases automatically and resets as screw is tightened.

MOLDED NYLON HANDLE SCREW STARTERS FOR CROSS-SLOTTED SCREWS

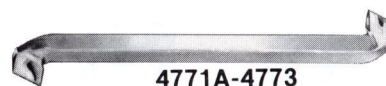
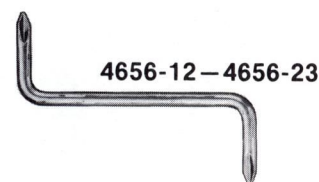
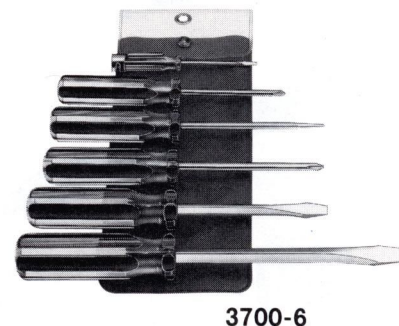
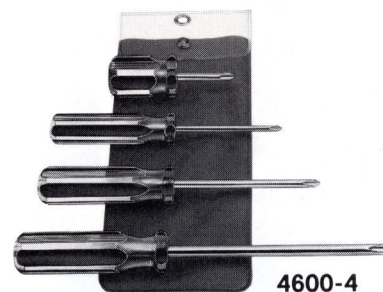
No.	Length	Std. Pkg.	Pkg. Wt. Lbs.
4780	2 1/2"	6	0.16
4781	6"	6	0.28
4782	9"	6	0.38

ALUMINUM SCREW STARTERS WITH MAGNETS FOR CROSS-SLOTTED SCREWS

No.	Length	Std. Pkg.	Pkg. Wt. Lbs.
4786	2 1/2"	6	0.30
4787	5"	6	0.45
4788	9"	6	0.60

FOR PHILLIPS HEAD SCREWS

No.	Length	Std. Pkg.	Pkg. Wt. Lbs.
4789	3"	6	0.35
4790	5"	6	0.45
4791	9"	6	0.60





540-550



562-570



540L-550L



405-410



540T-570T



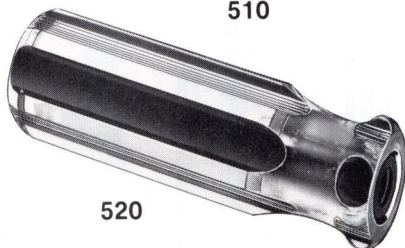
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510



520



Torx fasteners, which were first used in the automotive industry, are now finding their way in the manufacturing of many other products, such as typewriters, washing machines, and even furniture. This is why Torx bits and bit holders are becoming a must for every shop.

We offer a complete line of interchangeable Torx bits from T10 through T55—designed for complete servicing of late model Ford, GM, Chrysler and AMC vehicles. The bits are especially useful for removal, replacement or tightening of door strikers, seat belt bolts, bumper bolts, headlamp bezels and many more.

In addition to bits and bit holders for socket cap screws, now we offer a complete line of the most commonly used sockets designed for installing and removing Torx bolts. Purchase them individually or as a set with a convenient rail with clips to hold sockets securely in place.

TORX BITS

No.	Size	Length	Pkg. Wt. Lbs.	No.	Size	Length	Pkg. Wt. Lbs.
1/4" HEX							
540	T10	1"	0.06	546L	T25	4"	0.25
542	T15	1"	0.06	548L	T27	4"	0.25
544	T20	1"	0.06	550L	T30	4"	0.25
546	T25	1"	0.06	5/16" HEX			
548	T27	1"	0.06	562	T30	1 1/8"	0.13
550	T30	1"	0.06	564	T40	1 1/8"	0.13
540L	T10	4"	0.25	566	T45	1 1/8"	0.13
542L	T15	4"	0.25	568	T50	1 1/8"	0.13
544L	T20	4"	0.25	7/16" HEX			
Std. Pkg. 4				570	T55	1 3/8"	0.40
				Std. Pkg. 4			

TORX SOCKETS

No.	Size	Length	Pkg. Wt. Lbs.	No.	Size	Length	Pkg. Wt. Lbs.
1/4" DRIVE				3/8" DRIVE			
405	E5	1 5/16"	0.14	610	E10	1 3/16"	0.55
406	E6	1 5/16"	0.14	612	E12	1 3/16"	0.56
407	E7	1 5/16"	0.14	614	E14	1 3/16"	0.65
408	E8	1 5/16"	0.14	616	E16	1 3/16"	0.62
410	E10	1 5/16"	0.14				
Std. Pkg. 4				Std. Pkg. 4			

TORX ADAPTORS

No.	Bit Size	Length	Pkg. Wt. Lbs.	Bit No.	Pkg. Wt. Lbs.
3/8" DRIVE					
540T	T10	1 3/4"	.39	540	.06
542T	T15	1 3/4"	.39	542	.06
544T	T20	1 13/16"	.39	544	.06
546T	T25	1 13/16"	.39	546	.06
548T	T27	1 13/16"	.39	548	.06
550T	T30	1 13/16"	.39	550	.06
564T	T40	2 1/16"	.46	564	.13
566T	T45	2 1/16"	.46	566	.13
568T	T50	2 1/16"	.46	568	.13
570T	T55	2 3/16"	.81	570	.40
Std. Pkg. 4				Std. Pkg. 4	

No. 510 TORX DRIVER

Designed for removal of all T15 Torx fasteners. As used on exterior trim, headlamp bezel and instrument panels on GM cars and others. Shock proof plastic handle provides a firm comfortable grip.

Std. Pkg. 4—Pkg. Wt. 0.50 Lb.

No. 520 HANDLE

Provides convenient use of all 1/4" hex Torx bits listed. Allows use of Torx bits under a variety of applications.

Std. Pkg. 4—Pkg. Wt. 0.65 Lb.



ADAPTORS

These adaptors allow Torx fasteners to be used with Ratchets, Extensions, Flex Handles or other 1/4" or 3/8" Square Drive tools.

No. 522—1/4" F Hex x 1/4" F Sq. Dr.

Pkg. Wt. 0.20 Lb.

No. 560—5/16" F Hex x 3/8" F Sq. Dr.

Pkg. Wt. 0.40 Lb.

Std. Pkg. 4

Set #401 9 PIECE TORX SET

1/4" Dr. Sockets	408	E8	612	E12	9851	6" Rail
405	E5	410	E10	614	E14	9850-2 1/4" Clips (5)
406	E6	3/8" Dr. Sockets	616	E16	9850-3	3/8" Clips (4)
407	E7	610	E10			

Std. Pkg. 1—Pkg. Wt. 0.70 Lbs.

Set #501 7 PIECE TORX SET

540L	T10	544L	T20	548L	T27	520	Handle
542L	T15	546L	T25	550L	T30	501K	Pouch

Std. Pkg. 3—Pkg. Wt. 1.20 Lbs.

Set #502 21 PIECE TORX SET

1/4"x1" Bits		1/4"x4" Bits		5/16"x1 1/8" Bits		520	Handle
540	T10	540L	T10	562	T30	522	1/4" Sq. x 1/4"
542	T15	542L	T15	564	T40		Hex Adaptor
544	T20	544L	T20	566	T45	560	3/8" Sq. x 5/16"
546	T25	546L	T25	568	T50		Hex Adaptor
548	T27	548L	T27	3/8" Drive Bit		9703	Metal Box
550	T30	550L	T30	570T	T55		

Std. Pkg. 1—Pkg. Wt. 1.75 Lbs.

Set #503 10 PIECE TORX ADAPTORS

3/8" Dr. Adaptors	546T	T25	566T	T45	9852	9" Rail
540T	T10	548T	T27	568T	T50	9850-3 3/8" Clips (10)
542T	T15	550T	T30	570T	T55	
544T	T20	564T	T40			

Std. Pkg. 1—Pkg. Wt. 0.88 Lb.

NUT DRIVERS

Made from ALLOY STEEL with hollow shanks, extra deep sockets and plastic handles. Ideal for radio, television, ignition or switchboard work. Handles are color coded for quick and easy size identification. Shaft Length 3 1/8".

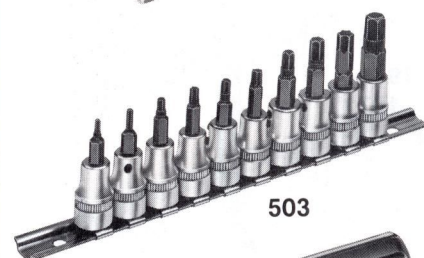
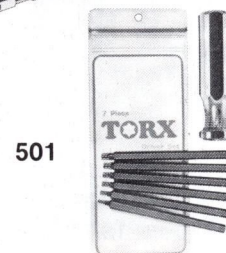
No.	Size	Overall Length	Pkg. Wt. Lbs.
71	3/16"	6 1/8"	0.86
72	7/32"	6 1/8"	0.86
73	1/4"	7"	0.92
74	9/32"	7"	0.92
75	5/16"	7"	0.95
76	1 1/32"	7"	0.95
77	3/8"	7"	0.95
78	7/16"	7 1/4"	1.22
79	1/2"	7 1/4"	1.36
80	9/16"	7 1/4"	1.46
81	5/8"	7 1/4"	1.51

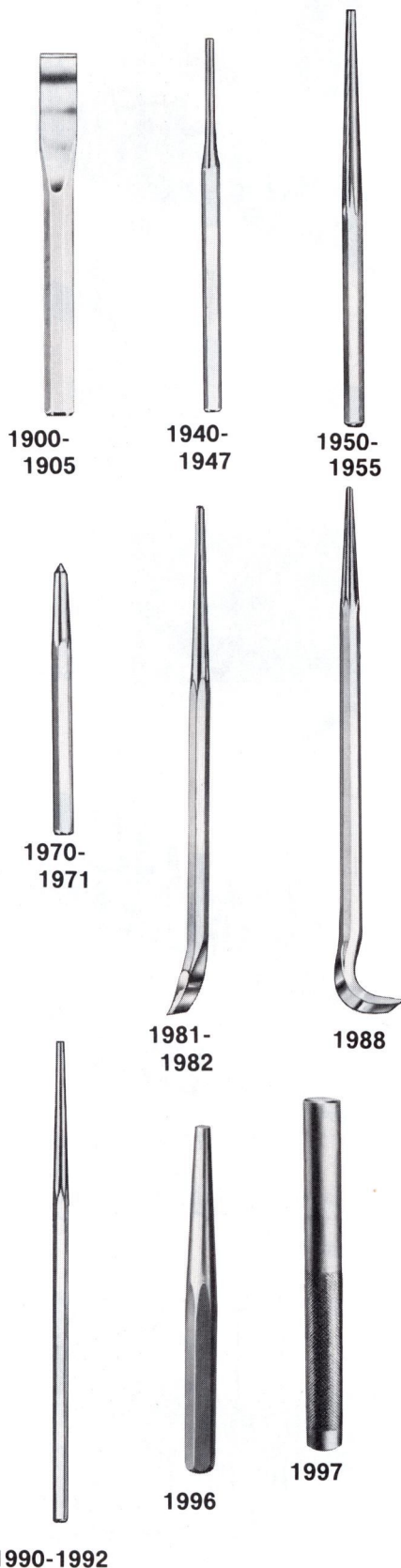
Std. Pkg. 6

Set #70-7 7 PIECE NUT DRIVER SET

71	3/16"	76	1 1/32"	79	1/2"
73	1/4"	77	3/8"		
75	5/16"	78	7/16"	DUK195	Roll-Up Kit

Std. Pkg. 1—Pkg. Wt. 1.60 Lbs.





Made of forged hexagon alloy steel and heat treated for the correct hardness. Tips and cutting edges retain their shape even under the hardest use. The body and head are softer to withstand hammer blows without chipping. Manufactured to exact professional requirements in length and size. Tips and blades are brightly polished. Body is satin finish and fully chrome plated.

No.	Bit or Point Size	Length	Size Stock	Pkg. Wt. Lbs.
COLD CHISELS				
1900	3/8"	5"	5/16"	0.71
1901	1/2"	5 3/4"	3/8"	1.17
1902	5/8"	6"	1/2"	2.11
1903	3/4"	7"	5/8"	3.69
1904	7/8"	8"	3/4"	5.87
1905	1"	9"	7/8"	8.68
Std. Pkg. 6				
PIN PUNCHES				
1940	3/32"	4 1/2"	5/16"	0.53
1941	1/8"	4 1/2"	5/16"	0.53
1942	5/32"	4 1/2"	5/16"	0.53
1943	5/32"	6"	5/16"	0.73
1944	3/16"	6 1/2"	3/8"	1.09
1945	7/32"	6 7/8"	3/8"	1.11
1946	1/4"	7 1/4"	3/8"	1.19
1947	5/16"	7 5/8"	1/2"	2.14
Std. Pkg. 6				
TAPER PUNCHES				
1950	3/32"	4 1/2"	5/16"	0.50
1951	1/8"	6 1/2"	5/16"	0.82
1952	3/16"	7"	3/8"	1.19
1953	7/32"	7 1/2"	1/2"	2.09
1954	1/4"	8"	5/8"	3.29
1955	9/32"	11"	5/8"	5.13
Std. Pkg. 6				
CENTER PUNCHES				
1970	—	4"	5/16"	0.50
1971	—	5"	3/8"	0.95
Std. Pkg. 6				
JIMMY PRY BARS				
1981	1"	16"	5/8"	7.68
1982	1 1/8"	20"	3/4"	13.81
Std. Pkg. 6				
CLOSE QUARTER PRY BAR				
1988	5/8"	15"	1/2"	5.22
Std. Pkg. 6				
LONG DRIFT PUNCHES				
1990	1/4"	16"	5/8"	7.85
1991	7/32"	14"	1/2"	4.56
1992	3/16"	12"	3/8"	2.27
Std. Pkg. 6				
BRASS PUNCHES				
Ideal punches to use when it is necessary not to damage any adjacent areas or to eliminate the possibility of flying sparks.				
1996	3/8"	8"	5/8" Hex	4.50
1997	3/4"	8"	3/4" Rd.	6.75
Std. Pkg. 4				



PUNCH & CHISEL SETS

A selection of three sets containing only the popular and most used sizes of each style. Furnished in a heavy gauge plastic roll-up kit with pockets for each tool.

No. 19002 5 PIECE PUNCH AND CHISEL SET

Contains one $\frac{3}{8}$ " cold chisel; two pin punches, $\frac{3}{32}$ " and $\frac{1}{8}$ "; one taper punch $\frac{3}{32}$ "; and one center punch.

Std. Pkg. 1—Pkg. Wt. 0.50 Lb.

No. 19002K Kit Only

No. 19005 5 PIECE COLD CHISEL SET

Contains $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ " and 1" sizes.

Std. Pkg. 1—Pkg. Wt. 3.50 Lbs.

No. 19005K Kit Only

No. 19008 11 PIECE PUNCH AND CHISEL SET

Contains three cold chisels $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ "; four pin punches $\frac{3}{32}$ ", $\frac{5}{32}$ ", $\frac{3}{16}$ " and $\frac{1}{4}$ "; three taper punches $\frac{3}{32}$ ", $\frac{3}{16}$ " and $\frac{7}{32}$ "; and one center punch.

Std. Pkg. 1—Pkg. Wt. 2.24 Lbs.

No. 19008K Kit Only

SCREW EXTRACTORS

FLUTED TYPE—Designed to remove broken studs, screws and pipe and pipe fittings. Correct drill size stamped on each tool. Forged from alloy steel. Black finish.

TWIST TYPE—For removing broken threaded studs or screws. Made of forged alloy steel. Brightly plated finish.

FLUTED TYPE

TWIST TYPE

No.	Point Size	For Bolt Size	Use Drill Size	Pkg. Wt. Lbs.	No.	Point Size	For Bolt Size	Use Drill Size	Pkg. Wt. Lbs.
1381	$\frac{1}{8}$ "	$\frac{1}{4}$ - $\frac{5}{16}$ "	$\frac{1}{8}$ "	0.24	1391	$\frac{1}{8}$ "	$\frac{7}{32}$ - $\frac{1}{4}$ "	$\frac{5}{32}$ "	0.25
1382	$\frac{11}{64}$ "	$\frac{3}{8}$ - $\frac{7}{16}$ "	$\frac{3}{16}$ "	0.37	1392	$\frac{3}{16}$ "	$\frac{5}{16}$ - $\frac{3}{8}$ "	$\frac{7}{32}$ "	0.34
1383	$\frac{13}{64}$ "	$\frac{1}{2}$ - $\frac{9}{16}$ "	$\frac{15}{64}$ "	0.61	1393	$\frac{1}{4}$ "	$\frac{7}{16}$ - $\frac{9}{16}$ "	$\frac{9}{32}$ "	0.63
1384	$\frac{19}{64}$ "	$\frac{5}{8}$ "	$\frac{5}{16}$ "	1.22	1394	$\frac{3}{8}$ "	$\frac{5}{8}$ - $\frac{7}{8}$ "	$\frac{13}{32}$ "	1.13
1385	$\frac{11}{32}$ "	$\frac{3}{4}$ "	$\frac{3}{8}$ "	1.37	1395	$\frac{7}{16}$ "	$\frac{7}{8}$ - $1\frac{1}{8}$ "	$\frac{15}{32}$ "	1.25
					1396	$\frac{1}{2}$ "	$1\frac{1}{8}$ - $1\frac{3}{8}$ "	$\frac{17}{32}$ "	1.25

Std. Pkg. 6

Std. Pkg. 6

No. 1380 (Set In Roll-Up Kit) 5 PIECE SCREW EXTRACTOR SET

Contains fluted type extractors, Nos. 1381, 1382, 1383, 1384 and 1385. Use to remove bolt or stud sizes $\frac{1}{4}$ " thru $\frac{3}{4}$ ". Furnished in a durable plastic roll-up kit with pockets for each tool.

Std. Pkg. 1—Pkg. Wt. 0.80 Lb.

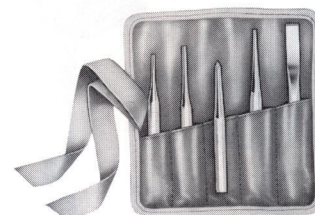
No. 1380K Kit Only

No. 1399 (Set In Roll-Up Kit) 6 PIECE SCREW EXTRACTOR SET

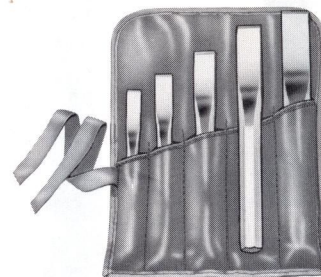
Contains twist type extractors, Nos. 1391, 1392, 1393, 1394, 1395 and 1396. Use to remove bolt or stud sizes $\frac{7}{32}$ " thru $1\frac{3}{8}$ ". Furnished in a durable plastic roll-up kit with pockets for each tool.

Std. Pkg. 1—Pkg. Wt. 0.90 Lb.

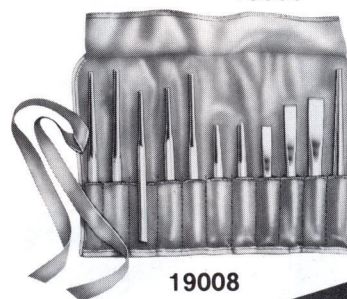
No. 1399K Kit Only



19002

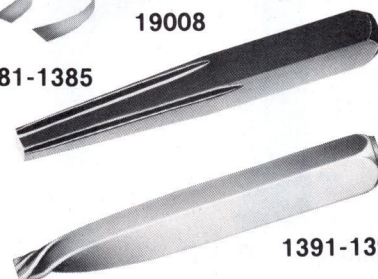


19005



19008

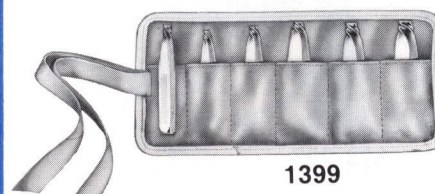
1381-1385



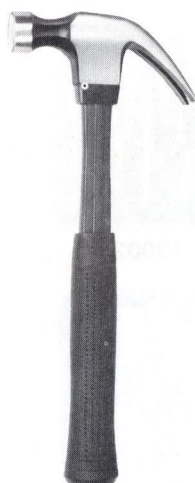
1391-1396



1380



1399



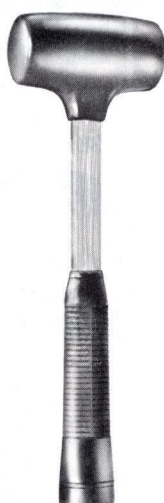
942A



943A



980-2B-980-32B



1521



988-993



988-2-993-3

CLAW HAMMERS

Carpenter's quality manufactured to fully meet Federal Specification GGG-H-86c. Heads are made of drop forged carbon steel, heat treated three ways for maximum durability. The face and claws are tempered separately for extra strength. Hammer head is epoxy bonded to the Fiberglass Handle.

No.	Weight	Handle Length	Std. Pkg.	Pkg. Wt. Lbs.
CURVED CLAW				
942A	16 oz.	13"	6	9.13
STRAIGHT CLAW				
943A	16 oz.	13"	6	9.13

BALL PEEN HAMMERS

Machinists' quality with rugged, drop forged carbon steel heads, triple heat treated for maximum durability. Face, sides and peen are polished. Neck and bell part of hammer head is finished in black. Hammer head is epoxy bonded to the Fiberglass Handle. Fully meets Federal Specification GGG-H-86c.

No.	Weight	Handle Length	Std. Pkg.	Pkg. Wt. Lbs.
980-2B	2 oz.	9"	3	1.15
980-4B	4 oz.	10"	3	1.69
980-8B	8 oz.	11"	6	4.84
980-12B	12 oz.	12"	3	3.31
980-16B	16 oz.	13"	6	8.06
980-20B	20 oz.	14"	3	5.00
980-24B	24 oz.	14"	3	6.00
980-32B	32 oz.	16"	3	8.00

No. 1521 POWER DRIVE DEAD BLOW HAMMER

Power Drive gives 30% more striking force with the most complete dead blow (no rebound) action. The non-sparking head composition eliminates mushrooming and noise when striking hardened surfaces. 12" fiberglass handle with non-slip grip provides comfort with less vibration and worker fatigue. 2 lb. head weight.

Std. Pkg. 2—Pkg. Wt. 4.00 Lbs.

SURFACE PROTECTIVE PLASTIC TIP HAMMERS

Designed for use where ordinary steel hammers cannot be used. Special compounded plastic tip prevents damage to the work surface. Fiberglass handle is permanently welded to the holder head. Furnished with two replaceable tips; medium and tough. Meets Federal Specification GGG-H-33.

No.	Weight	Tip Dia.	Handle Length	Std. Pkg.	Pkg. Wt. Lbs.
988	10 oz.	1 1/4"	11 1/4"	4	3.56
989	16 oz.	1 3/8"	11 1/4"	4	4.38
993	32 oz.	1 5/8"	12 3/4"	4	8.25

REPLACEMENT HAMMER TIPS

Replacement tips for above hammers.

No.	Tip Dia.	Fits Hammer No.	Description	Std. Pkg.	Pkg. Wt. Lbs.
988-2	1 1/4"	988	Medium	6	0.39
988-3	1 1/4"	988	Tough	6	0.39
989-2	1 3/8"	989	Medium	6	0.44
989-3	1 3/8"	989	Tough	6	0.44
993-2	1 5/8"	993	Medium	6	0.50
993-3	1 5/8"	993	Tough	6	0.50



No. 1524 (Old No. 944) CROSS PEEN OR BLACKSMITH HAMMER

Head is made of forged carbon steel and heat treated for maximum durability. Fiberglass handle and head are permanently welded together with a two component bonding method. Head cannot fly off or loosen even under the severest use. Fully meets Federal Specification GGG-H-86c. Weight 2½ lbs. Handle length 16".

Std. Pkg. 2—Pkg. Wt. 5.50 Lbs.

RUBBER MALLETS

Head is made of fine quality black composition rubber. High-grade, shaped Hickory handle assures long lasting toughness with tremendous impact strength.

No.	Old No.	Weight	Face Dia.	Head Length	Length Overall	Pkg. Wt. Lbs.
1537	990-18	12 oz.	2¼"	3"	12¼"	3.25
1538	990-24	20 oz.	2¼"	3⅞"	13"	5.50

Std. Pkg. 4

No. 1520 BRASS HAMMER

Surface protective, non-sparking, non-marring brass head absorbs blow and reduces rebound. Flat surface striking face for even blow distribution. Fiberglass handle with non-slip cushion grip for added comfort. 2.5 lb. head. Handle length 12".

Std. Pkg. 2—Pkg. Wt. 6.5 Lbs.

REPLACEMENT HAMMER HANDLE KITS

Contains one Fiberglass Handle and all material required to permanently bond hammer head to handle. Kit is Skin Packed on an attractive merchandiser card for rack or wall display. Complete instructions are printed on back of card. The two kits listed below will cover 95% of all hammer head sizes.

No. 982-1—Fits all Ball Peen head sizes up to 16 oz. and Plastic Tip heads up to 16 oz.

Std. Pkg. 10—Pkg. Wt. 4.75 Lbs.

Nb. 982-16—Fits all Ball Peen, Carpenters, Plastic Tip and Blacksmith's head sizes over 16 oz. and up to 48 oz.

Std. Pkg. 10—Pkg. Wt. 5.50 Lbs.

No. #1597 Set 17 PIECE BODY AND FENDER TOOL SET

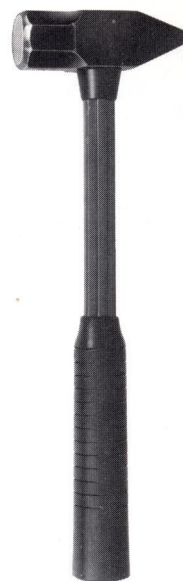
A master set containing the most popular dollies, hammers, flexible file and spoon. Furnished in a heavy gauge metal box with handy tote tray.

No.	Description	No.	Description
1526A	Long Dimple Dinging Hammer	1561	Curved Spoon
1527	Narrow Peen Bumping Hammer	1581	Curved Dolly
1539	Medium Dinging Hammer	1582	Wedge Dolly
1549	Dimple Dinging Hammer	1583	"Comma" Dolly
1553	Fender Bumping Hammer	1584	Toe Dolly
1545	Shrinking Hammer	1585	Heel Dolly
1550	Bumping Hammer	1586	Utility Dolly
1552	Dinging Hammer	1572	Flexible File & Holder
		9946	Metal Box

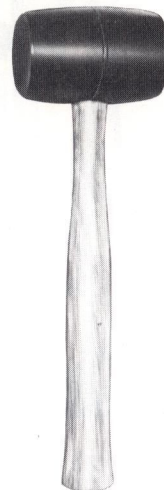
Std. Pkg. 1—Pkg. Wt. 41.00 Lbs.

No. 9946 Box Only—19⅞" x 8¾" x 8½"—Enamel Finish

Std. Pkg. 1—Pkg. Wt. 12.50 Lbs.



1524



1537-1538



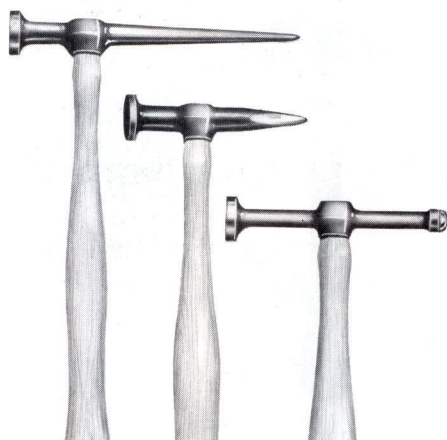
1520



982-1 - 982-16



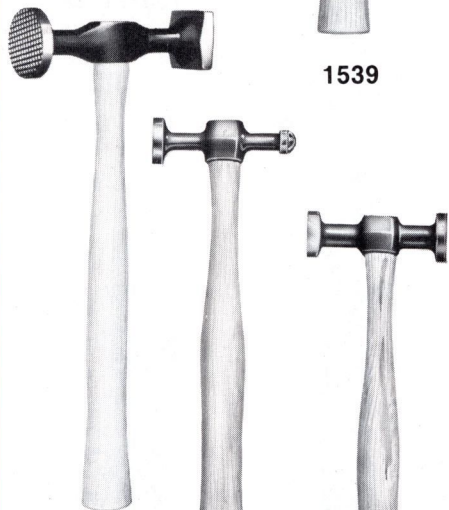
1597



1526A

1527

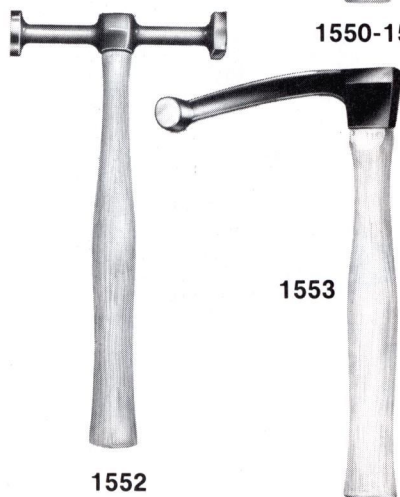
1539



1545

1549

1550-1551



1552

1553

No. 1526A (Old No. 946) LONG DIMPLE DINGING HAMMER

Hammer for dinging up low spots in metal finishing. Forged head has one $1\frac{7}{8}$ " diameter face. Pick end $5\frac{3}{4}$ " long tapering to $\frac{1}{32}$ " point. Overall length of head 8". Hickory handle. Weight 10 oz.

Std. Pkg. 3—Pkg. Wt. 2.75 Lbs.

No. 1527 (Old No. 947) NARROW PEEN BUMPING HAMMER

Bumping hammer with narrow peen for small dents, beads, mouldings and sharp corners. Drop forged head has polished face $1\frac{1}{4}$ " diameter. Peen is $\frac{3}{16}$ " thick and $\frac{3}{4}$ " wide. Overall length of head 5". Hickory handle. Weight 12 oz.

Std. Pkg. 3—Pkg. Wt. 2.82 Lbs.

No. 1539 (Old No. 948) MEDIUM DINGING HAMMER

For dinging and driving up low spots. 6" length of forged head allows extra reach where needed. Head face $1\frac{7}{8}$ " diameter. Peen $\frac{5}{8}$ " diameter. Hickory handle. Weight 11 oz.

Std. Pkg. 4—Pkg. Wt. 3.00 Lbs.

No. 1545 (Old No. 954) BODY & FENDER SHRINKING HAMMER

Round $1\frac{3}{4}$ " diameter face has cross milled serrations for shrinking. Square $1\frac{3}{4}$ " face is smooth for finishing. Length $12\frac{1}{2}$ ". Weight 16 oz.

Std. Pkg. 4—Pkg. Wt. 5.50 Lbs.

No. 1549 (Old No. 949) DIMPLE DINGING HAMMER

Forged dinging hammer for close quarter work. 4" head has one face $1\frac{1}{2}$ " diameter. Peen $\frac{5}{8}$ " diameter. Polished faces. Hickory handle. Weight 9 oz.

Std. Pkg. 4—Pkg. Wt. 2.82 Lbs.

BUMPING HAMMERS

Two bumping hammers similar in construction but different in weight. Weight difference is in thickness of head. Each drop forged head is 4" long and has two faces, one round $1\frac{1}{4}$ " in diameter the other $1\frac{1}{4}$ " square. Both faces polished. Hickory handle.

No. 1551 (Old No. 951)—10 oz.

Std. Pkg. 4—Pkg. Wt. 3.45 Lbs.

No. 1550 (Old No. 950)—13 oz.

Std. Pkg. 4—Pkg. Wt. 4.87 Lbs.

No. 1552 (Old No. 952) DINGING HAMMER

Drop forged dinging hammer for pounding down ridges, etc. Head $6\frac{1}{4}$ " long with one face round $1\frac{1}{4}$ " diameter, the other $1\frac{1}{8}$ " square. Both faces highly polished. Hickory handle. Weight 13 oz.

Std. Pkg. 4—Pkg. Wt. 3.83 Lbs.

No. 1553 (Old No. 953) FENDER BUMPING HAMMER

Designed for heavy duty work. Has long reach essential for fender bumping. Polished hammer face is $1\frac{1}{2}$ " diameter by $1\frac{5}{8}$ " long. Drop forged head has overall length of $8\frac{1}{2}$ ". Hickory handle. Weight 2 lbs.

Std. Pkg. 4—Pkg. Wt. 8.50 Lbs.



No. 1561 (Old No. 961) CURVED FLAT SPOON

Needed to spread hammer blows on high spots and for prying up dents that are not easily accessible. Polished face 2" x 6".

Std. Pkg. 1—Pkg. Wt. 1.48 Lbs.

FLEXIBLE FILE & HOLDER

An essential tool for body repair men. Can be made either concave or convex with single adjustment. Comfortable form fit handle.

No. 1572 (Old No. 972)—14" Flexible File & Holder

Std. Pkg. 1—Pkg. Wt. 2.59 Lbs.

No. 1572H (Old No. 972H)—Adjustable Holder Only

Std. Pkg. 1—Pkg. Wt. 2.04 Lbs.

No. 1571F (Old No. 971F)—14" Flexible File Only

Std. Pkg. 6—Pkg. Wt. 3.90 Lbs.

No. 1581 (Old No. 964) CURVED DOLLY

Convenient for fenders and for reaching into corners. Polished working faces.

Std. Pkg. 1—Pkg. Wt. 2.23 Lbs.

No. 1582 WEDGE DOLLY

Heavy duty type that can also be used as a toe dolly. Flat bottom can be used for shrinking. Fully polished.

Std. Pkg. 1—Pkg. Wt. 2.56 Lbs.

No. 1583 "COMMA" OR WEDGE DOLLY

Can be used as a short spoon or wedge tool in roof rails, under fender curves, braces, etc. Fully polished.

Std. Pkg. 1—Pkg. Wt. 2.19 Lbs.

No. 1584 (Old No. 955) TOE DOLLY

Exceptionally popular. Used mainly for flat or low crowned panels. Polished all over.

Std. Pkg. 1—Pkg. Wt. 2.28 Lbs.

No. 1585 (Old No. 960) HEEL DOLLY

A basic repair tool. This dolly has almost square corners and a round and flat surface for general utility. Polished all over.

Std. Pkg. 1—Pkg. Wt. 2.25 Lbs.

No. 1586 (Old No. 956) UTILITY DOLLY

One of the most popular dollies in the line. Exceedingly useful because of the many practical working faces. Polished all over.

Std. Pkg. 1—Pkg. Wt. 2.69 Lbs.

No. 2556 BODY DENT PULLER

Required tool for all body shops. Drill hole in dent, insert self-tapping screw or hook. Pull sliding hammer a few times and metal returns to its original position. Length 13".

Std. Pkg. 1—Pkg. Wt. 4.25 Lbs.

REPLACEMENT PARTS FOR BODY DENT PULLER

No. 2556-2—Sheet Metal Screw

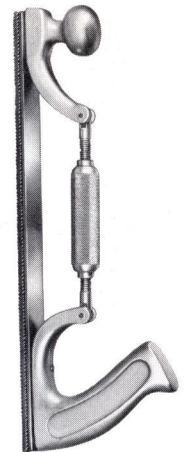
Std. Pkg. 6—Pkg. Wt. 0.20 Lb.

No. 2556-3—Hook

Std. Pkg. 6—Pkg. Wt. 0.20 Lb.



1561



1572



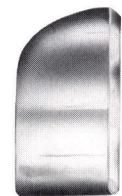
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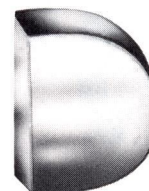
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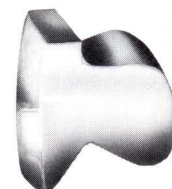
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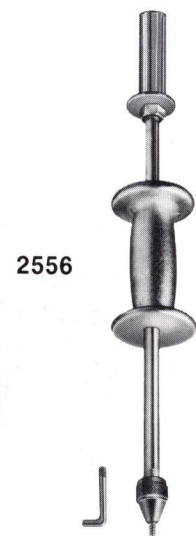
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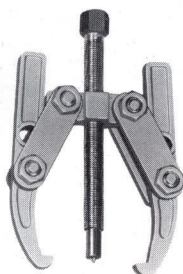
1585



1586



2556

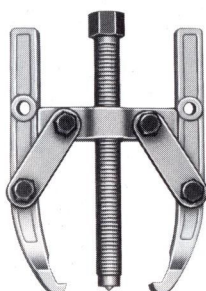


282

No. 282 4" ADJUSTABLE 2 JAW GEAR PULLER

This small but rugged Gear Puller can be used for pulling magneto and generator bearings as well as small gears. Ideal for electric motors and refrigeration applications, and all light duty pulling. The jaws are adjustable for two positions, allowing extra reach. Forged from Alloy Heat Treated Steel. Zinc and black oxide finish.

Specifications: Spread—4", Reach—3½", Center Screw—¾"-24 x 4¼", Capacity—2 Ton.
Std. Pkg. 1—Pkg. Wt. 1.00 Lb.



281

No. 281 7" ADJUSTABLE 2 JAW GEAR PULLER

This middle-range Puller has 2 adjustable jaws for two positions, with wide faces. Capable of handling several pulling jobs that a mechanic encounters daily. This tool could be used with a 2¼" Bearing Separator. Zinc and black oxide finish.

Specifications: Spread—7", Reach—5½", Center Screw—9⁄16"-20 x 6⅝", Capacity—5 Ton.
Std. Pkg. 1—Pkg. Wt. 2.50 Lbs.



285A

No. 285A 10" ADJUSTABLE 2 JAW GEAR PULLER

A rugged Puller with 3 positions for adjustment to increase or decrease the reach. This Puller can be used for fly wheel gear or pulley removal. Use this in conjunction with a 4¼" Bearing Separator. Zinc and black oxide finish.

Specifications: Spread—10", Reach—9", Center Screw—1⅛"-18 x 8⅝", Capacity—7 Ton.
Std. Pkg. 1—Pkg. Wt. 5.00 Lbs.



283A

No. 283A 6" REVERSIBLE 2 JAW GEAR PULLER

This very versatile Puller was designed for maximum safety and utility. The jaws are reversible and have wide faces on one end and narrow faces on the other. This could be classified as a medium to light duty Puller. Use this Puller when removing bearings, in conjunction with a 2¼" Bearing Separator. Zinc and black oxide finish.

Specifications: Spread—6", Reach—3½", Center Screw—9⁄16"-20 x 6⅝", Capacity—5 Ton.
Std. Pkg. 1—Pkg. Wt. 2.00 Lbs.



284A

No. 284A 9" REVERSIBLE 2 JAW GEAR PULLER

This Puller is designed for heavy duty pulling for both automotive and industrial use. The jaws are reversible and one end has slots for cap screw pulling of gears and pulleys. A very versatile and strong Puller. Use either end of jaws in conjunction with a 4¼" Bearing Separator. Zinc and black oxide finish.

Specifications: Spread—9", Reach—5½", Center Screw—1⅛"-18 x 8⅝", Capacity—7 Ton.
Std. Pkg. 1—Pkg. Wt. 4.25 Lbs.

REPLACEMENT PULLER PARTS

Puller #	282	281	285A	283A	284A
Yoke	282-1	283A-1	284A-1	283A-1	284A-1
Arm	282-2	281-2	285-2	283-2	284-2
Screw	282-3	283A-3	284A-3	283A-3	284A-3
Bolt & Nut	282-4	282-4	284-4	282-4	284-4
Linkage	282-5	283-5	284-5	283-5	284-5
Std. Pkg. 1					



No. 298 4" ADJUSTABLE 3 JAW GEAR PULLER

This 3 jaw adjustable Gear Puller gives a lot of versatility for a small but rugged puller. The 3 jaw feature gives added stability where required. Two positions are allowed because the jaws have 2 sets of holes to vary the reach. This Puller is most ideal for removing motor, magneto, and generator bearings and gears. Zinc and black oxide finish.

Specifications: Spread—4", Reach $3\frac{1}{2}$ ", Center Screw— $\frac{3}{8}$ "-24 x $4\frac{1}{4}$ ", Capacity—2 Ton. Std. Pkg. 1—Pkg. Wt. 1.50 Lbs.

No. 299A

8" ADJUSTABLE COMBINATION 2 AND 3 JAW GEAR PULLER

This adjustable combination 2 and 3 jaw Puller can be converted into either a 2 or 3 jaw Puller. When the three jaws are used it provides considerable more stability. When the job calls for a 2 jaw, it can be easily converted back into a 2 jaw Puller. Zinc and black oxide finish.

Specifications: Spread—8", Reach— $5\frac{1}{2}$ ", Center Screw— $\frac{9}{16}$ "-20 x $6\frac{3}{8}$ ", Capacity—5 Ton. Std. Pkg. 1—Pkg. Wt. 2.94 Lbs.

No. 288A

11" ADJUSTABLE COMBINATION 2 AND 3 JAW GEAR PULLER

This adjustable combination 2 and 3 jaw Puller is just what the mechanic needs to help reach those hard to get at places. Each jaw has three holes to provide that extra stretch when needed. When the 3 jaws are used, the jaws provide a three point grip and extra power, many times needed to pull gears, pulleys and other parts. Zinc and black oxide finish.

Specifications: Spread—11", Reach 9", Center Screw— $\frac{11}{16}$ "-18 x $8\frac{3}{8}$ ", Capacity—7 Ton. Std. Pkg. 1—Pkg. Wt. 6.50 Lbs.

No. 286A

7" REVERSIBLE COMBINATION 2 AND 3 JAW GEAR PULLER

This reversible combination 2 and 3 Jaw Puller is a 2 jaw which can easily be converted into a 3 jaw Puller providing a three point grip, thus more stability.

Specifications: Spread—7", Reach— $3\frac{1}{2}$ ", Center Screw— $\frac{9}{16}$ "-20 x $6\frac{3}{8}$ ", Capacity—5 Ton. Std. Pkg. 1—Pkg. Wt. 2.81 Lbs.

No. 287A

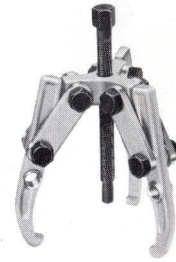
10" REVERSIBLE COMBINATION 2 AND 3 JAW GEAR PULLER

This reversible combination 2 and 3 jaw Gear Puller is used for many of the heavy pulling jobs the mechanic may encounter. It can easily be converted into a 2 jaw or 3 jaw Puller. Its 2 jaws are used when a 3 jaw would be impossible because of clearance. When 2 jaws will not do the job, the 3 jaw Puller will accomplish the pulling job. Zinc and black oxide finish.

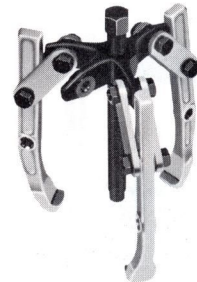
Specifications: Spread—10", Reach— $5\frac{1}{2}$ ", Center Screw— $\frac{11}{16}$ "-18 x $8\frac{3}{8}$ ", Capacity—7 Ton. Std. Pkg. 1—Pkg. Wt. 5.81 Lbs.

REPLACEMENT PULLER PARTS

Puller #	298	299A	288A	286A	287A
Yoke	298-1	286A-1	287A-1	286A-1	287A-1
Arm	282-2	281-2	285-2	283-2	284-2
Screw	282-3	283A-3	284A-3	283A-3	284A-3
Bolt & Nut	282-4	282-4	284-4	282-4	284-4
Linkage	282-5	283-5	284-5	283-5	284-5
Std. Pkg. 1					



298



299A



288A



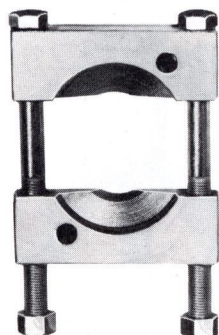
286A



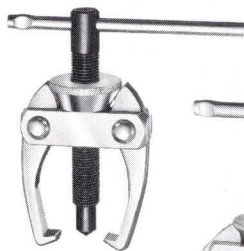
287A



254B



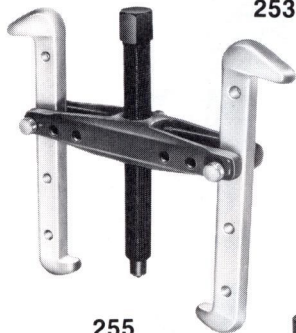
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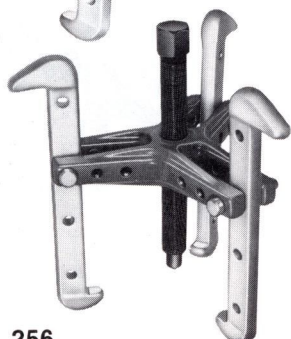
252



253



255



256

No. 254B STEERING WHEEL PULLER

Designed to pull steering wheels on all major automobiles. The cross arm is 4" long and made of 1" square steel. The center screw is $\frac{5}{8}$ "-18 x 4". Only one swivel is necessary on this tool. The floating swivel is recessed in the end so as not to damage the spring tip connected to the horn wires. Five sets of side screws are provided: $\frac{3}{8}$ "-16 x 4", $\frac{5}{16}$ "-18 x 4 $\frac{1}{2}$ ", $\frac{5}{16}$ "-24 x 3 $\frac{1}{2}$ ", $\frac{1}{4}$ "-28 x 3" and M8 x 1.25 x 80mm.

Std. Pkg. 1—Pkg. Wt. 2.25 Lbs.

BEARING SEPARATORS

For precision pulling hard to grip parts, knife like edges for gripping gears, bearings, etc., where space does not permit puller jaws to be hooked on to part.

No. 247—0"-2 $\frac{1}{4}$ "—Use with Puller No. 283A or 274.

Std. Pkg. 1—Pkg. Wt. 1.25 Lbs.

No. 247H—Capacity 0"-4 $\frac{1}{4}$ "—Use with Puller No. 284A.

Std. Pkg. 1—Pkg. Wt. 6.00 Lbs.

LIGHT DUTY GEAR PULLERS

Designed for removing small gears, bearing, cones and other parts that require a light duty puller. Forged arms are locked in pulling position by a cone operating on the puller screw. Grips securely, will not tip or slip. Chrome plated finish.

No. 252—2 $\frac{1}{4}$ " Capacity—Maximum spread between points of 1 $\frac{7}{8}$ ". Will pull a gear up to 2 $\frac{1}{4}$ " diameter by $\frac{1}{2}$ " width. Effective arm length 1 $\frac{3}{4}$ ".

Std. Pkg. 1—Pkg. Wt. 0.75 Lbs.

No. 253—3 $\frac{1}{2}$ " Capacity—Maximum spread between points of 2 $\frac{3}{4}$ ". Will pull a gear up to 3 $\frac{1}{2}$ " diameter by $\frac{1}{8}$ " width. Effective arm length 2 $\frac{1}{4}$ ".

Std. Pkg. 1—Pkg. Wt. 1.36 Lbs.

HEAVY DUTY PULLERS

Two and three arm types that can be used for either internal or external pulling. Drop forged arms have an 8" overall length with three effective length adjustments. 6 $\frac{1}{4}$ " maximum reach. Offset hooks of $\frac{1}{2}$ " at one end and 1" at the other. Fully chrome plated. Center body is drop forged and finished in baked red enamel. Has three radial adjustments giving a diameter range of from 3" to 6". Quick action adjusting pins are held in place by spring loaded balls. Heavy, hardened, extra long screw has powerful low pitch thread. $\frac{7}{8}$ " hexagon head can be turned with socket and attachment or wrench.

No. 255—2 Arm Puller

Std. Pkg. 1—Pkg. Wt. 5.16 Lbs.

No. 256—3 Arm Puller

Std. Pkg. 1—Pkg. Wt. 7.41 Lbs.

REPLACEMENT PULLER PARTS

Puller #	252	253	255	256
Yoke	—	—	255-1	256-1
Screw	252-2	253-2	255-3	255-3
Arm	252-3	253-3	255-2	255-2
Bar	252-1	253-1	—	—
Pin	252-6	253A-6	255-4	255-4
Nut	252-4	253-4	—	—
Handle	252-5	253-5	—	—
Std. Pkg. 1				



No. 289 HARMONIC BALANCER PULLER

Designed to pull Balancers, Vibration Dampers, Pulleys or any gear with tapped holes. The four slots in the yoke allows the use of this tool in either two or three hole applications. The Floating Swivel prevents damage to shaft ends. Complete unit consists of Yoke, Hex Head Center Screw with Live Center and Ring, and 11 side screws (3 each of $\frac{3}{8}$ "-24 x 2", $\frac{5}{16}$ "-18 x 2", M8 x 1.25 x 80mm and 2 each of $\frac{3}{8}$ "-16 x 4"). Finish: Zinc plated body; black oxide screw.

RANGE: $1\frac{3}{8}$ " to $3\frac{9}{16}$ "

Std. Pkg. 1—Pkg. Wt. 2.50 Lbs.

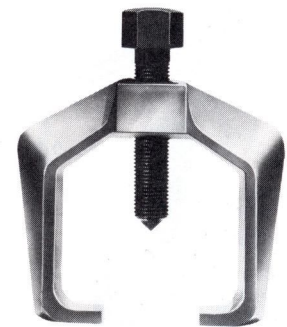


289

No. 290 UNIVERSAL PITMAN ARM PULLER

Designed for removing the Pitman Arms from the majority of cars and light trucks. This Universal Puller eliminates the necessity for the mechanic to have several different types of pullers to do this job. The Heavy Duty Center Screw allows enough pressure to be applied in removing even the most stubborn Pitman Arms. Finish: Zinc plated body; black oxide screw.

Std. Pkg. 1—Pkg. Wt. 1.25 Lbs.

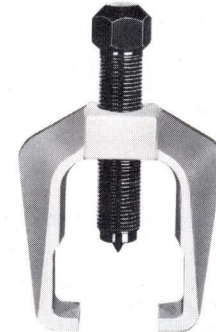


290

No. 2549 PITMAN ARM & TIE ROD PULLER—SMALL CARS

Designed as a screw type puller, this tool affords a safe and steady pull. It is developed for use on small cars having small Pitman Arms, as well as Tie Rod Ends. The complete tool is made from alloy steel and heat treated to the correct hardness for proper strength and wear. Finish: Zinc plated body; black oxide screw.

Std. Pkg. 1—Pkg. Wt. 1.00 Lb.



2549

No. 2569 STEERING WHEEL LOCK PLATE REMOVER

Just a few turns of the knob to put the screw on the steering column and a few turns of the large wing nut and the retaining spring is ready for release to remove the lock plate. Reverse this procedure to install the lock plate.

All of this is done without the use of any other tool. This tool is complete in itself—A great time saver for both removing and installing lock plates on A.M.C., General Motors and Chrysler cars with both conventional and tilt steering wheels. The two adaptors allow this tool to be used on both $\frac{9}{16}$ "-18 threads and 14mm threads. Finish: Zinc plated body; black oxide screw.

Std. Pkg. 1—Pkg. Wt. 1.12 Lbs.



2569

REPLACEMENT PULLER PARTS

Puller #	289	290	2549	2569
Yoke	289-1	290-1	2549-1	2569-1
Screw	289-3	290-2	290-2	2569-2
Arm	—	—	—	—
Live Center & Ring	289-2	—	—	—
$\frac{5}{16}$ "-18 x 2" Bolt	289-4	—	—	—
$\frac{3}{8}$ "-24 x 2" Bolt	289-5	—	—	—
$\frac{3}{8}$ "-16 x 4" Bolt	289-6	—	—	—
$\frac{9}{16}$ " Adaptor	—	—	—	2569-3
14mm Adaptor	—	—	—	2569-4
Pin	—	—	—	2569-5
Std. Pkg. 1	—	—	—	—



130A



No. 130A TERMINAL CLAMP LIFTER

Even the most corroded terminals can be lifted with this heavy duty tool. The harder the pull, the tighter the jaws grip the clamp removing it effortlessly with no danger of damaging the battery.

Std. Pkg. 1—Pkg. Wt. 0.50 Lb.

266



No. 266 TIE ROD END PULLER

Designed primarily to separate tie rod end from steering arm. Place between the two and strike a few sharp blows with hammer. The parts will separate easily. Can also be used to separate shock absorber links. Tapered wedge-end has two prongs with a $2\frac{1}{32}$ " opening. A heavy duty tool made from alloy heat treated steel. Will withstand hard usage. Overall length 16". Zinc plated.

Std. Pkg. 1—Pkg. Wt. 2.73 Lbs.

267

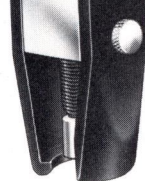


No. 267 BALL JOINT SEPARATOR

A handy tool for removing the ball joint from steering knuckle. To use, place the tapered end between the two and strike a few blows with hammer. These parts will easily separate. Tapered wedge-end has a $1\frac{5}{16}$ " opening. Made of alloy heat treated steel to withstand hard usage. Overall length $11\frac{7}{8}$ ". Zinc plated.

Std. Pkg. 1—Pkg. Wt. 1.75 Lbs.

268



No. 268 PULLEY PULLER

Designed specifically to remove pressed on 1 or 2 groove pulleys on alternators and power steering pumps. Also used for removing alternator bearings. The attached jaw fits over the flange affording a firm grip. Thumb screws adjust jaws. Turn center screw down for easy removal. Contrasting black oxide and zinc plating.

Std. Pkg. 1—Pkg. Wt. 1.75 Lbs.

248



No. 248 UNIVERSAL HUB PULLER

Three sliding puller arms quickly and easily adjust to fit the hub. The unique design of the arms provide for a straight pull on all size bolt circles up to 8" to prevent damage to the axle or puller screw. Forged alloy steel; chrome plated finish.

Std. Pkg. 1—Pkg. Wt. 10.27 Lbs.

2548



No. 2548 FRONT WHEEL HUB PULLER

This tool is to be used on vehicles having Independent Front Suspension, including Passenger Cars, both Domestic and Foreign, as well as Light Trucks. Whenever brake or front wheel bearing service is being done this tool is necessary for removal of the front hubs. The center screw is $\frac{5}{8}$ "-18 x $5\frac{1}{2}$ " long with a $\frac{3}{4}$ " hex head. Plated finish with black oxide screw.

Std. Pkg. 1—Pkg. Wt. 2.69 Lbs.

REPLACEMENT PULLER PARTS

Puller #	248	2548
Body & Screw Assembly	248-3	—
Arm	248-8	—
Handle	248-9	—
Yoke	—	2548-1
Screw	—	2548-2
Std. Pkg. 1		



No. 269 SLIDE HAMMER PULLER SET

This versatile puller can be used for removing bearings, bushings, pinions, grease retainers, seals, as well as gears. It is easily adaptable to be used for internal or external pulling. There are two yokes which allows for either 2 jaw or 3 jaw application.

The adjusting cone applies constant pressure to the jaws whether inside or outside pulling is necessary. It is equipped with a 2½" lbs. hammer sliding on a 24" long rod. Zinc plated with black oxide slide.

Capacity

2-Jaw

Inside—1¼" Min., 3⅜" Max.
Outside—1" Min., 4½" Max.
Std. Pkg. 1—Pkg. Wt. 7.75 Lbs.

3-Jaw

Inside—1⅝" Min., 4¾" Max.
Outside—1½" Min., 4½" Max.

No. 269B PILOT BEARING PULLER ATTACHMENT FOR 269

This adaptor attaches to the slide hammer shaft and is used to remove flywheel pilot bearings on domestic and foreign passenger cars, as well as many trucks and tractors. It can also be used to remove other small bearings. Black oxide and zinc plated.

Capacity: Small Jaws—⅜"-1⅜"
Large Jaws—½"-1½"

Std. Pkg. 1—Pkg. Wt. 1.125 Lbs.

No. 269C HOOK ATTACHMENT FOR 269

This hook attachment is used for the removal of dents as well as moving structural members on unitized bodies. It will also remove seals and bearings.

Std. Pkg. 1—Pkg. Wt. .38 Lb.

No. 278 FLANGE TYPE AXLE PULLER

Designed for easy removal of flange type rear axles on cars and light trucks. Can also be used as a regular wheel or hub puller. Yoke has four slots which will fit on either 4, 5 or 6 bolt (or studs) axles with up to ⅞" diameter bolts or studs. The EXTRA HEAVY sliding hammer part of this puller provides the power to remove the most stubborn axles. Zinc plated and black oxide finish.

Std. Pkg. 1—Pkg. Wt. 9.74 Lbs.

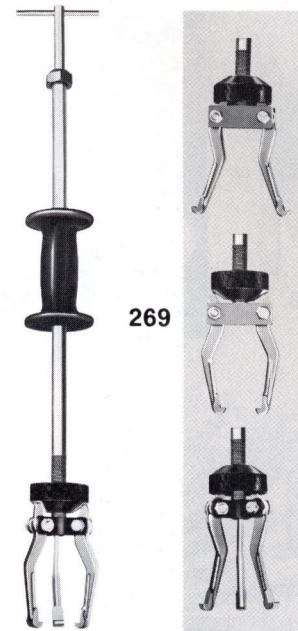
No. 274 TIMING GEAR PULLER

Has 6" yoke and 6¼" forcing screw. Screw has ½" hexagon head that can be turned with a wrench or socket and handle. A pair of ⅜"-16 x 3" hexagon head cap screws is furnished to handle most of tapped timing gears.

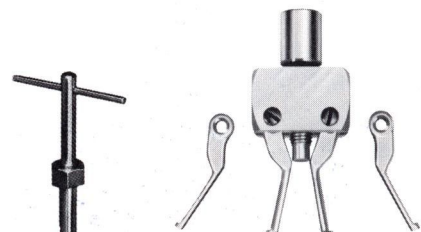
Std. Pkg. 1—Pkg. Wt. 1.65 Lbs.

REPLACEMENT PULLER PARTS

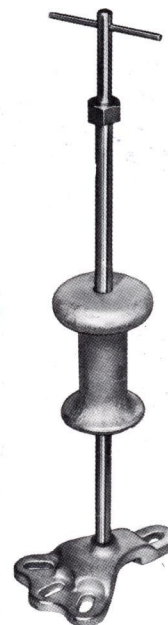
Puller #	
Yoke	274-1
Screw	274-2
⅜"-16 x 3" Bolt	274-5
Std. Pkg. 1	



269



269B



278



269C

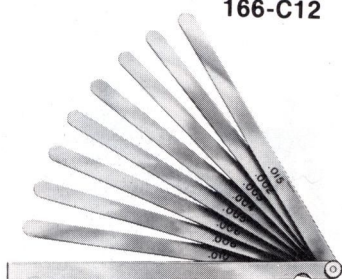


274

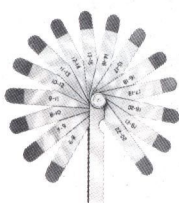


166

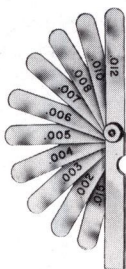
166-C12



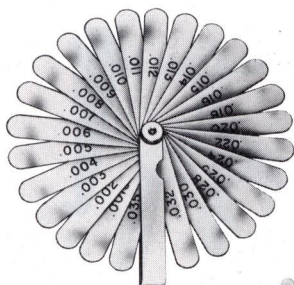
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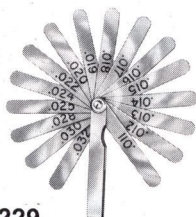
224



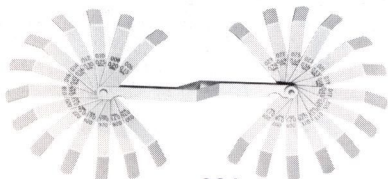
210



225



229



231

Gauges are precision made from finest grade Swedish steel. Each blade is tested to insure exact thickness. All gauges have knurled lock-nuts for instant blade selection or blade positioning. Blades are etched with decimal sizes and their metric equivalents.

No. 166 ALL PURPOSE FEELER GAUGE

A quality feeler gauge for general use. Nine thickness gauges ranging from .004 to 0.25 with 3" scale. Locking nut holds blade firmly when in use. Sizes: .004, .006, .008, .010, .012, .013, .015, .018, .025, 3" scale.

Std. Pkg. 6—Pkg. Wt. 0.50 Lb.

No. 166-C12—Card of 12

Std. Pkg. 1—Pkg. Wt. 1.50 Lbs.

No. 207 PISTON FEELER GAUGE

Eight Blade Gauge adapted to fitting pistons. Every recommended clearance is contained in this gauge. Blades 9" long and held in position by locking nut. Sizes: .002, .003, .004, .005, .006, .008, .010, .015.

Std. Pkg. 6—Pkg. Wt. 1.00 Lb.

No. 210 STANDARD FEELER GAUGE

This Gauge has 10 blades $3\frac{5}{16}$ " long x $\frac{1}{2}$ " wide in popular thicknesses for piston ring clearances, valve clearances, brake shoe clearance and distributor breaker point opening. Sizes: .002, .003, .004, .005, .006, .007, .008, .010, .012, .015.

Std. Pkg. 6—Pkg. Wt. 0.50 Lb.

No. 224 GO-NO-GO GAUGE

Contains 15- $3\frac{5}{16}$ " x $\frac{1}{2}$ " step-ground blades in the following thicknesses:

.006-.008	.009-.011	.012-.014	.015-.017	.018-.020
.007-.009	.010-.012	.013-.015	.016-.018	.019-.021
.008-.010	.011-.013	.014-.016	.017-.019	.020-.022

Std. Pkg. 6—Pkg. Wt. 1.00 Lb.

No. 225 MASTER FEELER GAUGE

The Master Feeler Gauge is a necessity around any automotive repair shop or manufacturing plant. This gauge offers a complete range of sizes from .0015 to .035 with 25 blades $3\frac{5}{16}$ " long x $\frac{1}{2}$ " wide. Like all our feeler gauges, it is equipped with a thumb locking nut. Sizes: .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .022, .024, .025, .028, .030, .032, .035.

Std. Pkg. 6—Pkg. Wt. 1.31 Lbs.

No. 229 MASTER IGNITION GAUGE

This gauge services all foreign and domestic cars. Contains 16 blades $1\frac{3}{4}$ " x $\frac{1}{4}$ ". Sizes are: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .024, .025, .028, .030, .032.

Std. Pkg. 6—Pkg. Wt. 0.37 Lb.

No. 231 EXTRA LENGTH OFFSET GAUGE

26 Blades $\frac{1}{2}$ " wide, 4" overall length. Each blade is bent at 45° one inch from end. Sizes .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025, .026, .027, .028, .029, .030.

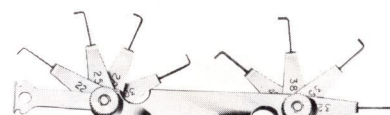
Std. Pkg. 6—Pkg. Wt. 2.25 Lbs.



No. 208A SPARK PLUG WIRE GAUGE

The correct way to measure the gap between spark plug electrodes. Eight sizes: .022, .025, .028, .030, .032, .035, .038 and .040.

Std. Pkg. 6—Pkg. Wt. 0.50 Lb.

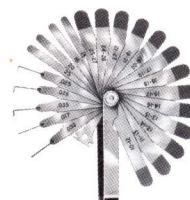


208A

No. 226 FORD FEELER GAUGE

A necessity for a mechanic working on Ford cars. Has three 90° offset wire gauges, .025, .028, .035 for spark plug gaps. Two straight wire gauges, .017, .030. Four 3⁵/₁₆" x 1/4" ignition blades, .015, .016, .020, .025; also, thirteen step ground 3⁵/₁₆" x 1/2" Go-No-Go blades of the following thicknesses: .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .021-.023, .024-.026, .025-.027. Handy spark plug electrode bender included.

Std. Pkg. 6—Pkg. Wt. 1.26 Lbs.



226

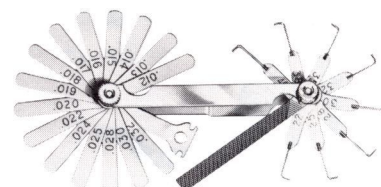


227

No. 227 CHEVROLET FEELER GAUGE

Especially designed for use on Chevrolet cars. Has three 90° offset wire gauges, .032, .035, .040 and four 3⁵/₁₆" x 1/4" ignition blades, .016, .018, .020, .022. Also contains eight 3⁵/₁₆" x 1/2" regular blades in the following sizes: .006, .007, .008, .010, .012, .013, .015, .020 and electrode bending tool.

Std. Pkg. 6—Pkg. Wt. 0.82 Lb.

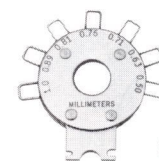


230

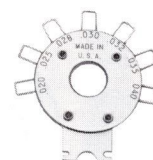
No. 230 COMBINATION IGNITION AND SPARK PLUG GAUGE

Wire and narrow blade sizes to check the majority of ignition gap tolerances. Contains 15 blades 1³/₄" x 1/4". Sizes: .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .024, .025, .028, .030, .032. Wire gauge sizes: .022, .025, .028, .030, .032, .035, .038, .040 and 1 tungsten file.

Std. Pkg. 6—Pkg. Wt. 0.50 Lb.



232



234

No. 232 "POCKET TYPE" SPARK PLUG GAUGE

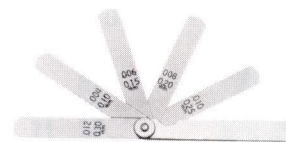
Contains seven most popular sizes. Standard spark plug gapping wire sizes: .020, .025, .028, .030, .032, .035, .040. Metric equivalents on reverse side.

Std. Pkg. 6—Pkg. Wt. 0.33 Lb.

No. 233 NON-MAGNETIC IGNITION GAUGE

Designed for Chrysler products electronic ignition systems, magnetos and other non-magnetic gapping jobs. Five brass blades each measure 3⁵/₁₆" x 1/2". Sizes: .004, .006, .008, .010, .012.

Std. Pkg. 6—Pkg. Wt. 0.50 Lb.

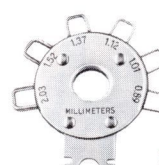


233

No. 234 HIGH ENERGY SPARK PLUG GAUGE

Popular sizes required to gap spark plugs on new model domestic cars. Six round wire sizes for exact measurements at any angle. Sizes: .035, .040, .044, .054, .060, .080.

Std. Pkg. 6—Pkg. Wt. 0.36 Lb.

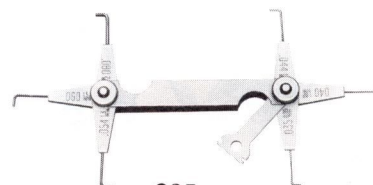


235

No. 235 6 WIRE HIGH ENERGY SPARK PLUG GAUGE

Heavy duty construction gauge for new model "High-Energy" ignition systems. Electrode bender and six wire sizes: .035, .040, .044, .054, .060, .080.

Std. Pkg. 6—Pkg. Wt. 0.75 Lb.



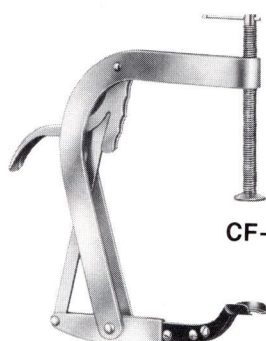


CF-11

No. CF-11 UNIVERSAL VALVE LIFTER

A lifter for automobiles and trucks with springs up to 2½" diameter. Clearance 10½" high, 9½" wide. Includes three pairs of jaws: straight jaws 7⁄8" to 1⅞" offset jaws 1" to 2" and large straight jaws 1½" to 2½" spring diameter.

Std. Pkg. 1—Pkg. Wt. 6.31 Lbs.



CF-17

No. CF-17 HIGH COMPRESSION ENGINE VALVE LIFTER

Designed especially for V-8 car and truck engines with overhead valving. Clearance 9¾" high and 7" wide. Offset jaws for 1" to 2" spring diameter, furnished.

Std. Pkg. 1—Pkg. Wt. 4.90 Lbs.

No. CF-60-CS DEGLAZING AND RESURFACING HONES

Adjustable hone for 2" to 5¼" cylinders. Equipped with 3 medium grit stones.

Std. Pkg. 1—Pkg. Wt. 1.13 Lbs.

REPLACEMENT STONES FOR CF-60-CS

No. CF-61-12S

MEDIUM GRIT: Set of 3 stones in plastic case. Length 3".

Std. Pkg. 1—Pkg. Wt. 0.28 Lb.

No. CF-61-14S

FINE GRIT: Set of 3 stones in plastic case. Length 3".

Std. Pkg. 1—Pkg. wt. 0.28 Lb.



CF-60-CS

No. CF-62 PRESET TENSION GLAZE BREAKER

This tool has preset tension, 2" to 7" capacity. Equipped with 4" medium grit stones.

Std. Pkg. 1—Pkg. Wt. 1.13 Lbs.

REPLACEMENT STONES FOR CF-62

No. CF-62-12

MEDIUM GRIT: Set of 3 stones in plastic case. Length 4".

Std. Pkg. 1—Pkg. Wt. 0.28 Lb.

No. CF-62-14

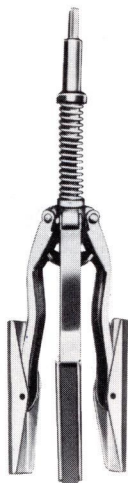
FINE GRIT: Set of 3 stones in plastic case. Length 4".

Std. Pkg. 1—Pkg. Wt. 0.28 Lb.

CF-61-12S
CF-61-14S



CF-62-12
CF-62-14



CF-62



No. CF-64 SMALL CYLINDER HONE

For resurfacing small engine cylinders on motorcycles, lawnmowers and outboard motors. Can also be used on Volkswagen brake cylinders. Adjustable from 1/2" to 2 1/4" diameter. Equipped with 2 medium grit stones.

Std. Pkg. 1—Pkg. Wt. 0.25 Lb.

REPLACEMENT STONES FOR CF-64

No. CF-64-1

MEDIUM GRIT: Set of 2 stones in plastic case. Length 1 1/8".

Std. Pkg. 1—Pkg. Wt. 0.05 Lb.

No. CF-64-14

FINE GRIT: Set of 2 stones in plastic case. Length 1 1/8".

Std. Pkg. 1—Pkg. Wt. 0.05 Lb.

No. CF-63 BRAKE CYLINDER HONE

Use in cylinders 3/4" to 2 1/4" diameter. Equipped with 3 medium grit stones.

Std. Pkg. 1—Pkg. Wt. 0.25 Lb.

REPLACEMENT STONES FOR CF-63

No. CF-63-1

MEDIUM GRIT: Set of 3 stones in plastic case. Length 1 1/8".

Std. Pkg. 1—Pkg. Wt. 0.06 Lb.

No. CF-63-14

FINE GRIT: Set of 3 stones in plastic case. Length 1 1/8".

Std. Pkg. 1—Pkg. Wt. 0.06 Lb.

No. CF-63-34

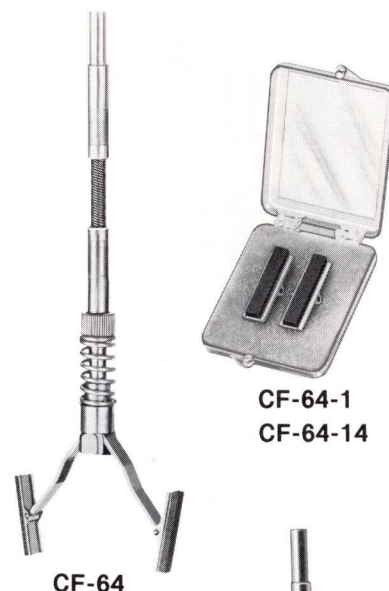
FINE GRIT: For No. CF-63 Hone, for disc brakes. Packed in plastic case. Length 3/4".

Std. Pkg. 1—Pkg. Wt. 0.06 Lb.

No. CF-68 DISC BRAKE CYLINDER HONE

For use in honing disc brake cylinders larger than 1 1/4" diameter. Also for use on small engine cylinders. Adjustable from 1 1/4" to 3 1/2" diameter. Equipped with 3 fine grit stones, 3/4" long, suitable for disc brake honing. The CF-63 stones listed above can be used with this hone.

Std. Pkg. 1—Pkg. Wt. 0.30 Lb.



CF-64-1
CF-64-14



CF-63-1
CF-63-14
CF-63-34



CF-63



CF-68



785



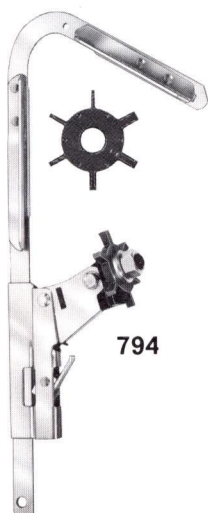
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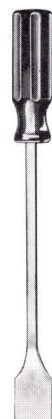
790S



793



794



2568

STANDARD PISTON RING COMPRESSOR

No. 785 2 1/8" to 5" DIAMETER

Fits practically all pistons except those having a ring on the lower skirt. Band depth is 2 1/8". Extra heavy spring steel tension band held firmly in place by automatic friction brake. L handle adjusts compressor easily to the diameter required.

Std. Pkg. 1—Pkg. Wt. 0.50 Lb.

TWIN BAND PISTON RING COMPRESSOR

The "Twin Band" feature eliminates flare out as well as compressing the rings tightly. Beaded bottom edge prevents the tool from entering the cylinder. L handle operates the self locking, heavy duty ratchet pawl. Band depth is 3 1/2".

No. 790—2 1/8" to 5"

Std. Pkg. 1—Pkg. Wt. 0.80 Lb.

No. 790T—3 1/2" to 7" Diameter

Std. Pkg. 1—Pkg. Wt. 0.82 Lb.

HEAVY DUTY PISTON RING COMPRESSOR

No. 790S 3 1/2" to 7" DIAMETER

Designed for use on truck, tractor or diesel engine. Band depth is 6 1/2". Has four tension bands and ratchet type tension holding device. Use on pistons when the extreme distance from top to skirt is more than 3 1/2".

Std. Pkg. 1—Pkg. Wt. 1.75 Lbs.

SMALL ENGINE RING COMPRESSOR

No. 793 1 1/2" to 3" DIAMETER

Designed specifically for use on foreign cars and small gas engines. Spring steel compression band, 2 1/2" high. Single tension band with adjustable friction brake.

Std. Pkg. 1—Pkg. Wt. 0.25 Lb.

No. 794 PISTON RING GROOVE CLEANER

Adjustable type for cleaning pistons from 2" to 5" in diameter. The two six blade Cutter Wheels are included to cover all popular groove sizes in both S.A.E. and Metric increments. The S.A.E. Cutter Wheel includes sizes 1/16", 5/64", 3/32", 1/8", 5/32" and 3/16". The Metric Cutter Wheel includes sizes 2.0mm, 2.5mm, 3.0mm, 4.0mm, 4.5mm and 1/4".

Std. Pkg. 1—Pkg. Wt. 0.75 Lb.

No. 795—Repair Kit for 794

Repair kit including cutter wheels, clip, washer, nut and holder.

Std. Pkg. 1—Pkg. Wt. 0.18 lb.

No. 2568 SCRAPER

High quality alloy steel with precision heat treated blade for long life. Essential for any mechanics tool box. Use to scrape any flat surface before installing new gaskets. Blade width 1", shank 1/4" x 6" long. Comfortable plastic handle.

Std. Pkg. 4—Pkg. Wt. 1.01 Lbs.



No. 130A TERMINAL CLAMP LIFTER

Even the most corroded terminals can be lifted with this heavy duty tool. The harder the pull, the tighter the jaws grip the clamp removing it effortlessly with no danger of damaging the battery.

Std. Pkg. 1—Pkg. Wt. 0.50 Lb.

No. 131A TERMINAL AND POST CLEANER

Metal brush shaped to fit inside terminal clamps, removes corrosion quickly. Metal brush in base of tool is used to clean battery posts. Steel case with easy grip knurling. Length 3 $\frac{3}{8}$ ".

Std. Pkg. 1—Pkg. Wt. 0.25 Lb.

No. 2116 (Old No. 3416) BATTERY PLIER

Three sets of teeth are broached clean with sufficient depth for good gripping power on corroded or undersized battery terminal nuts. Polished jaws, chrome plated, plastic grips. Length 7 $\frac{1}{2}$ ".

Std. Pkg. 6—Pkg. Wt. 2.71 Lbs.

No. 3434 SPARK PLUG TERMINAL PLIER

For removing bare spark plug terminal with engine running without danger of electrical shock. The small indentation on the end of the insulated jaw, securely grips terminal wire for easy removal or connecting. Designed and tested to withstand voltages far in excess of those encountered in engine tune-up work. Handles and jaws are insulated for double protection. Length 7 $\frac{1}{2}$ ".

Std. Pkg. 1—Pkg. Wt. 0.30 Lb.

No. 174-C12 QUALITY IGNITION FILES

Clean cutting fine, Tungsten ignition files. Specially designed for distributor—other electrical contacts. Mounted 12 on a colorful display.

Std. Pkg. 1—Pkg. Wt. 0.25 Lb.

OFFSET DISTRIBUTOR WRENCHES

No. 2024

$\frac{9}{16}$ " Special Wrench for distributors on Chevrolet V-8 and Buicks. 12 point. Length 11 $\frac{3}{4}$ ".

Std. Pkg. 6—Pkg. Wt. 5.00 Lbs.

No. 2023

$\frac{1}{2}$ " Distributor Wrench with proper angle for work on Ford, Lincoln and Mercury.

Std. Pkg. 6—Pkg. Wt. 3.00 Lbs.

No. 2545 11 PIECE IGNITION TOOL SET

Contains 9 wrenches, 5" plier and screwdriver. Furnished in a sturdy roll-up kit with pockets for each tool.

Std. Pkg. 1—Pkg. Wt. 0.54 Lb.



130A

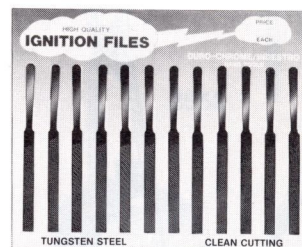
131A



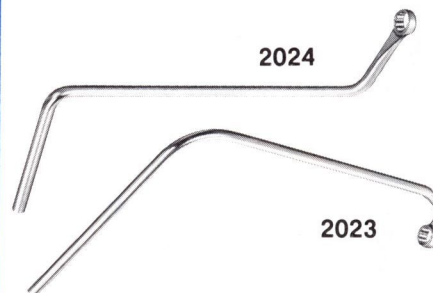
2116



3434

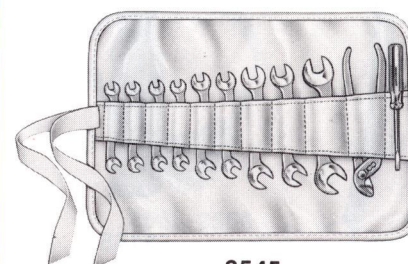


174-C12



2024

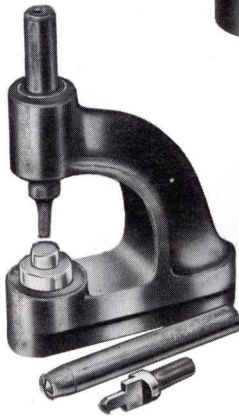
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2545



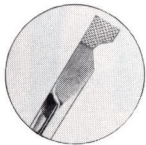
251



824



851-
852



2132



2127



2163



2165

No. 251 STUD REMOVER

Eccentric roller grips stud firmly. Convenient and fast to use with $\frac{1}{2}$ " square drive handles. Heat treated alloy steel. Cadmium plated. Capacity— $\frac{1}{4}$ " thru $\frac{3}{4}$ ".

Std. Pkg. 1—Pkg. Wt. 1.23 Lbs.

No. 824 BRAKE AND CLUTCH LINING RIVETING SET

Convenient hand tool for on-the-job pad or lining installation; repairing leather, canvas, plastic or metal objects. Use on most any job where rivets are required.

Set has frame which will clamp in vise, anvil, combination drill and counter-sink, punch for removing rivets and rivet clincher.

Std. Pkg. 1—Pkg. Wt. 1.08 Lbs.

WIRE HAND BRUSHES

Stiff wire brushes for general use. Ideal for removing carbon, rust, paint, etc. Length 14" overall, $6\frac{1}{4}$ " of bristle.

No. 851—3 Row Brush

Std. Pkg. 6—Pkg. Wt. 2.60 Lbs.

No. 852—4 Row Brush

Std. Pkg. 6—Pkg. Wt. 3.50 Lbs.

No. 2132 LOCK RING PLIERS

Lock rings are easily removed with this tool. Jaws scored on outside to prevent slipping. Spring holds jaws in closed position. Forged alloy steel, polished jaws, chrome plated. Plastic grips. Jaw opening $1\frac{1}{2}$ ". Length 9".

Std. Pkg. 1—Pkg. Wt. 0.50 Lb.

No. 2127 BRAKE SPRING PLIERS

Designed for removing and installing brake springs. Pointed jaw holds brake shoe in line while hook draws spring into position. One handle has a cam on the end which releases spring from anchor post merely by turning. Other handle is grooved to slip spring over anchor post. Made of forged steel and completely chrome plated. Length 12".

Std. Pkg. 3—Pkg. Wt. 2.81 Lbs.

No. 2163 BRAKE ADJUSTING TOOL

Most popular design brake adjusting tool. Forged at proper angle with one end ground tapered for easy access. Brightly plated. Length $8\frac{3}{4}$ ".

Std. Pkg. 6—Pkg. Wt. 2.20 Lbs.

No. 2165 BRAKE SPRING TOOL

Brake shoe retaining spring tool for removing and replacing dish type washer. Knurled cup securely grips washer. Notched for washers with ears. Plastic handle.

Std. Pkg. 6—Pkg. Wt. 1.75 Lbs.



No. 815 FLEXIBLE MECHANICAL FINGER

A most useful tool for retrieving small parts, nuts, bolts and screws where the fingers cannot reach. Overall length 15" with 8" flexible section.

Std. Pkg. 6—Pkg. Wt. 2.50 Lbs.

MAGNET TOOLS

Used to retrieve small steel parts that fall into impossible places. Permanent Alnico Magnet head. Chrome plated.

No. 2552

6" Magnet Pocket Tool with handy klip for shirt or jacket.

Std. Pkg. 6—Pkg. Wt. 0.50 Lb.

No. 2553

9" Magnet Tool, only $\frac{5}{16}$ " in diameter for those hard to reach places. Head swings 120° in either direction. Has a plastic handle for non-slip grip.

Std. Pkg. 6—Pkg. Wt. 1.00 Lb.

No. 2554

"Master" Magnet Tool telescopes from 17" to a full 26½", easily picks up 3 lbs. Head swings 120° in either direction. Has a plastic handle for non-slip grip.

Std. Pkg. 4—Pkg. Wt. 2.50 Lbs.

No. 2557 UNIVERSAL OIL FILTER WRENCH

The harder you turn this wrench, the tighter it grips. Works in restricted areas, won't crush filter. Use with any $\frac{3}{4}$ " wrench. Self ratcheting.

Std. Pkg. 1—Pkg. Wt. 0.75 Lb.

OIL FILTER WRENCH for Sub-Compact Cars

The unique design of this tool enables the user to remove the oil filter regardless of obstructions above, below, behind, or in front of the filter. The more pressure that is exerted to the wrench, the tighter it clamps to the filter. Use with $\frac{3}{8}$ " square drive ratchet, swing head handle, or slide "T" handle. An extension can be used if extra clearance is required. Contrasting cadmium and black oxide finish.

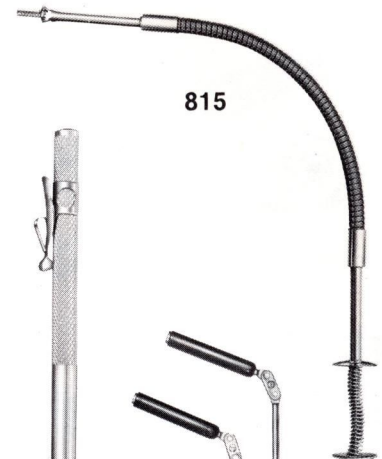
No. 2565—Adj. 2⅞" (73mm) to 3⅞" (85.73mm) Std. Pkg. 1—Pkg. Wt. 0.50 Lb.

No. 2566—Adj. 2¾" (70mm) to 3" (76mm) Std. Pkg. 1—Pkg. Wt. 0.50 Lb.

No. 2567 MULTI PURPOSE AWL

Used by machinists, tanners, die makers and a host of other workmen. Shank is hot forged. Long thin taper to a sharp point. Durable plastic handle for a comfortable grip. Plated shank. Length 7¾".

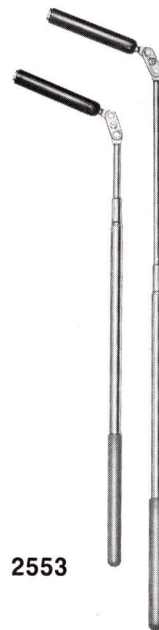
Std. Pkg. 4—Pkg. Wt. 0.95 Lb.



815



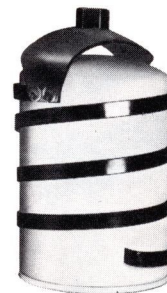
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2553



2554



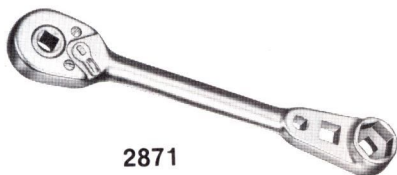
2557



2567



2565-2566



2871



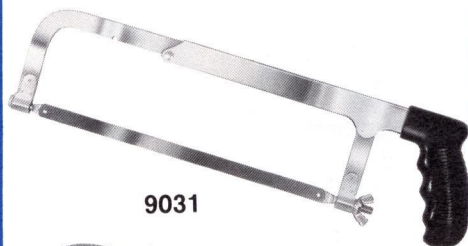
4493



4517



341-344-491



9031



9035



9012A-9014

REFRIGERATION RATCHET WRENCH

No. 2871

1/4" Female Square Drive

Especially designed for use with valve stem and packing gland nut sockets in servicing refrigeration units. Handle has four different size openings . . . 3/16", 1/4" and 5/16" square, and 9/16" — 6 pt. for hexagon nuts and bolts. Reversible ratchet end has a 24 tooth action mechanism for fast and smooth operation. Reverses instantly by turning thumb control lever. Polished and Chrome Plated.

Std. Pkg. 3—Pkg. Wt. 1.36 Lbs.

No. 2871-8 INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 2871 Refrigeration Ratchet Wrench.

Std. Pkg. 1—Pkg. Wt. 0.12 Lb.

No. 4493 DOUBLE MALE ADAPTOR—1/4" x 3/8"

For use with No. 2871 Reversible Ratchet to drive 3/8" square drive sockets and attachments.

Std. Pkg. 4—Pkg. Wt. 0.11 Lb.

No. 4517 RATCHET ADAPTOR PLUG

For use with No. 2871 Ratchet Wrench listed above. Ball and spring at each end locks into wrench and socket. Knurled head design for easy removal. Length 7/8".

Std. Pkg. 4—Pkg. Wt. 0.07 Lb.

VALVE STEM SOCKETS

These sockets have 1/4" square male drive ends with spring loaded ball to hold them securely in place in the refrigeration ratchet or extension. Will fit popular sizes of square valve stems. Heat treated, polished and fully Chrome Plated.

Socket No.	For Square Stem Size	Standard Package	Pkg. Wt. Lbs.
341	3/16"	6	0.25
342	7/32"	6	0.25
343	1/4"	6	0.25
344	5/16"	6	0.25
491	3/8"	4	0.25

No. 9031 HACKSAW FRAMES

Pistol grip, made of heavy gauge steel for extra rigidity. Adjustable for 8" to 12" blades. Furnished with blade. Brightly plated.

Std. Pkg. 1—Pkg. Wt. 1.41 Lbs.

No. 9035

This deluxe hacksaw has one piece, "D" grip combined with 5/8" heavy gauge tubing frame. This rugged construction will give a lifetime of service. for 10" or 12" blades. Furnished with blade.

Std. Pkg. 1—Pkg. Wt. 1.13 Lbs.

No. 9012A HACKSAW BLADES

A flexible back blade, hardened and tempered for general purpose use. Medium cut, 24 teeth per inch. Length 12".

Std. Pkg. 12—Pkg. Wt. 1.00 Lb.

No. 9014 HIGH SPEED HACKSAW BLADES

Made of Molybdenum high speed steel for longer usage without breaking. Hardened tooth edge results in easy and smoother cutting. Length 12".

Std. Pkg. 12—Pkg. Wt. 1.00 Lb.



COIL SPRING TUBING BENDERS

Hand bending without collapsing or distorting the tubing is made easy with these special tools. Made of heavy, coiled music wire, heavily plated. Federal Specification GGG-B-191a.

No.	Length	Std. Pkg.	Pkg. Wt. Lbs.
241	For 1/4" O.D. Tubing	6	1.09
242	For 5/16" O.D. Tubing	6	1.41
243	For 3/8" O.D. Tubing	6	1.65
244	For 7/16" O.D. Tubing	6	2.38
245	For 1/2" O.D. Tubing	6	2.69
246	For 5/8" O.D. Tubing	6	3.23

No. 240-6 SET OF 6 BENDERS LISTED ABOVE

Std. Pkg. 1—Pkg. Wt. 1.41 Lbs.

TUBING CUTTER

Improved design, cuts soft copper, brass and aluminum tubing with outside diameters from 1/8" to 1 1/8". Has swing-out, hardened burr reamer. Spare cutting wheel is concealed under reamer.

No. 262—Tubing Cutter

Std. Pkg. 1—Pkg. Wt. .37 Lb.

No. 262B—Cutting Wheel Only

Std. Pkg. 6—Pkg. Wt. .08 Lb.

No. 270 PINCH-OFF TOOL

Used to effect repairs where a shut-off valve is not provided. Will close up to 1/2" Dia. tubing. Holes at end will form and straighten 1/4" and 5/16" tubing. Compact 3 1/8" long, 1 1/8" high. Brightly plated.

Std. Pkg. 6—Pkg. Wt. 2.75 Lbs.

No. 386 TUBING FLARING TOOL

Hinged bar type with large wing nuts for secure clamping. The hardened center punch and floating cone produce an accurate 45° flare. Has seven threaded dies to accommodate all popular sizes from 3/16" O.D. thru 5/8" O.D. tubing. Cadmium and black oxide finish.

Std. Pkg. 1—Pkg. Wt. 2.04 Lbs.

PARTS FOR NO. 386

No. 386-1—Bar Assembly

Std. Pkg. 1—Pkg. Wt. 1.25 Lbs.

No. 386-2—Yoke Assembly

Std. Pkg. 1—Pkg. Wt. 1.00 Lb.

No. 386-11—Wing Nut

Std. Pkg. 1—Pkg. Wt. 0.10 Lb.

No. 387 DOUBLE FLARING TOOL SET

Strong enough to make double flares in soft steel tubing up to .040" wall thickness. Will also make a single flare. Furnished with five adaptors in sizes 3/16", 1/4", 5/16", 3/8" and 1/2". The heavy duty alloy swivel is ground and chromed to reduce friction. The yoke is forged for added strength. Cadmium and black oxide finish. Packed in heavy duty polypropylene box.

Std. Pkg. 1—Pkg. Wt. 2.56 Lbs.

PARTS FOR NO. 387

No. 387-1—3/16" Adaptor

No. 387-5—1/2" Adaptor

No. 387-2—1/4" Adaptor

No. 387-6—Bar Assembly

No. 387-3—5/16" Adaptor

No. 387-7—Yoke Assembly

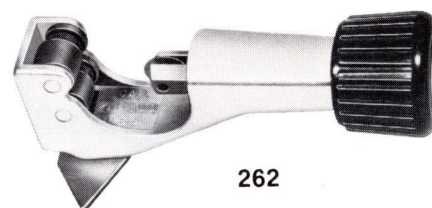
No. 387-4—3/8" Adaptor

No. 387-15—Wing Nut

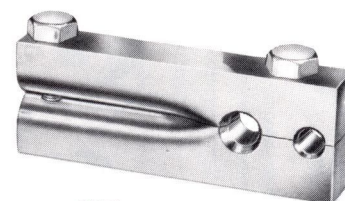
Std. Pkg. 1



241-246



262



270



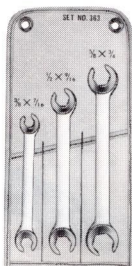
386



387



368-370



363



370C-372B



0712



0714



5407-5412



5507-5512



5401-5403

Set #363 3 PIECE FLARE NUT WRENCH KIT

368	$\frac{3}{8}$ " x $\frac{7}{16}$ "	370	$\frac{5}{8}$ " x $\frac{3}{4}$ "	K171	Roll Up Kit
369	$\frac{1}{2}$ " x $\frac{9}{16}$ "				
Std. Pkg. 1 — Pkg. Wt. 0.95 Lb.					

STRAIGHT PATTERN FLARE NUT WRENCHES

A specially designed wrench for use on brass or other soft metal fittings. End openings offset at 10° angle, will pass over tubing allowing contact of box wrench on flare nut. Made of Alloy Steel. Chrome plated with polished heads.

No.	Opening Size		Length	Pkg. Wt. Lbs.
368	$\frac{3}{8}$ " x $\frac{7}{16}$ "	6 Point	5 $\frac{1}{4}$ "	0.88
369	$\frac{1}{2}$ " x $\frac{9}{16}$ "	6 Point	6 $\frac{3}{8}$ "	1.73
370	$\frac{5}{8}$ " x $\frac{3}{4}$ "	6 Point	7 $\frac{1}{16}$ "	2.33
370C	$\frac{5}{8}$ " x $\frac{13}{16}$ "	12 Point	7 $\frac{1}{16}$ "	2.13
371	$\frac{3}{4}$ " x 1"	12 Point	8 $\frac{1}{16}$ "	3.04
372	$\frac{7}{8}$ " x 1 $\frac{1}{8}$ "	12 Point	9 $\frac{5}{8}$ "	4.51
372B	1 $\frac{5}{16}$ " x 1 $\frac{1}{16}$ "	12 Point	9 $\frac{5}{8}$ "	5.00
Std. Pkg. 6				

FLARE NUT HEXAGON SIZE

Tubing Size	Old Style Hex. Nut	Wrench No.	New Style Hex. Nut	Wrench No.
$\frac{3}{16}$ "	$\frac{5}{8}$ "	370-370C	$\frac{1}{2}$ "	369
$\frac{1}{4}$ "	$\frac{3}{4}$ "	370-371	$\frac{5}{8}$ "	370-370C
$\frac{3}{8}$ "	$\frac{7}{8}$ "	372	1 $\frac{3}{16}$ "	370C
$\frac{1}{2}$ "	1"	371	1 $\frac{5}{16}$ "	372B
$\frac{5}{8}$ "	1 $\frac{1}{8}$ "	372	1 $\frac{1}{16}$ "	372B

REFRIGERATION RATCHETING BOX WRENCHES

These specially designed wrenches are double broached on each end. Made for use with refrigeration and air conditioning equipment.

No.	Sizes	Length	Pkg. Wt. Lbs.
0712	$\frac{1}{4}$ " Sq. + $\frac{3}{8}$ " Sq. x $\frac{3}{16}$ " Sq. + $\frac{5}{16}$ " Sq.	5 $\frac{9}{16}$ "	1.40
0714	$\frac{3}{16}$ " Sq. + $\frac{1}{4}$ " Sq. x $\frac{1}{2}$ " Hex + $\frac{9}{16}$ " Hex	6 $\frac{1}{16}$ "	2.80
Std. Pkg. 6			

SNIPS

Thinner cutting edges and handle design permit smooth clean cuts with strong handle leverage. The Circle Pattern is designed for work on intricate patterns and for either a straight cut or cutting right or left hand corners in a small radius. Made of a special analysis forged steel, heat treated for long usage. Fully polished jaws; handles are finished in a bright red.

STRAIGHT PATTERN

CIRCLE PATTERN

No.	Length	Cutting Edge	Pkg. Wt. Lbs.	No.	Length	Cutting Edge	Pkg. Wt. Lbs.
5407	7"	2"	0.50	5507	7"	1 $\frac{1}{2}$ "	0.50
5410	10"	2 $\frac{3}{4}$ "	1.00	5510	10"	2 $\frac{1}{4}$ "	1.00
5412	12 $\frac{3}{4}$ "	3"	1.50	5512	12 $\frac{3}{4}$ "	3"	1.50
Std. Pkg. 1							

POWER CUT TYPES

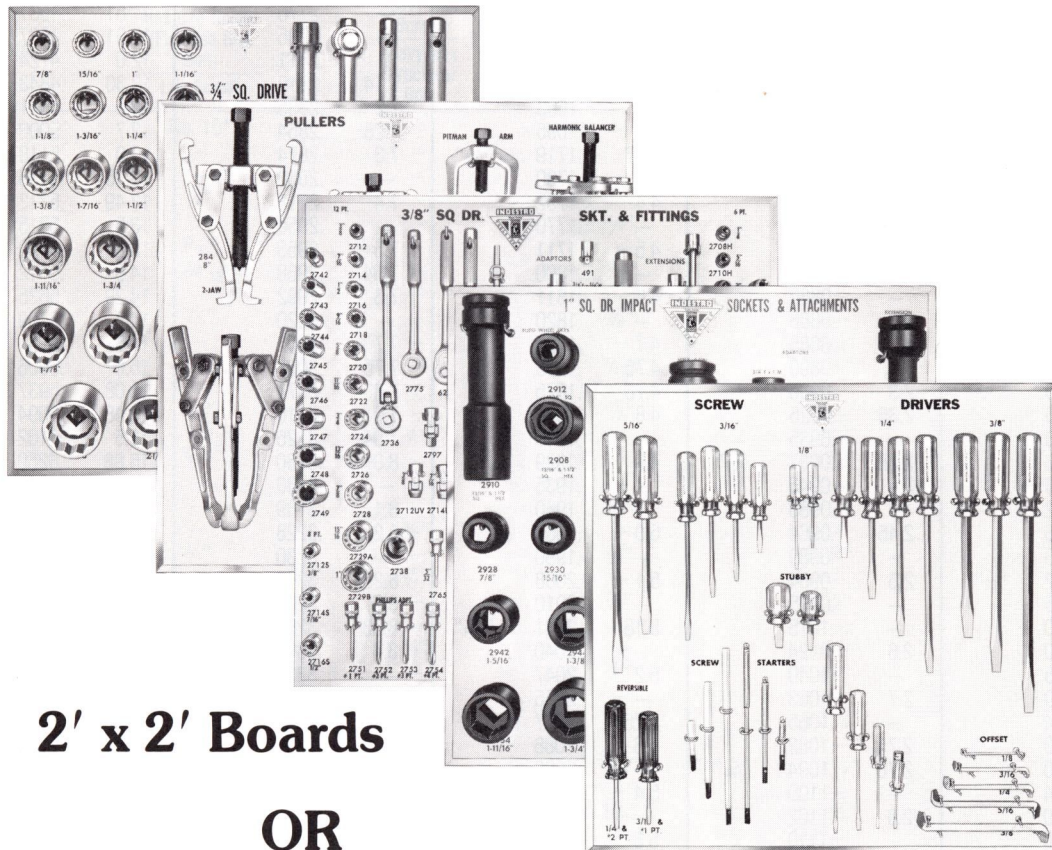
These snips provide effortless cutting power on metal up to 18 gauge. Blades made with 52 serrations to the inch and are curved to divert the sheared metal. Furnished with COLOR CODED vinyl plastic hand grips as follows:

RED-CUTS LEFT GREEN-CUTS RIGHT YELLOW-CUTS STRAIGHT

No.	Cuts	Length	Length of Cut	Pkg. Wt. Lbs.
5401	Left	10"	1 $\frac{3}{8}$ "	1.00
5402	Right	10"	1 $\frac{3}{8}$ "	1.00
5403	Straight	10"	1 $\frac{1}{2}$ "	1.00
Std. Pkg. 1				



Indestro Merchandisers



2' x 2' Boards

OR

1' x 2' Boards



Look to Indestro for fine
Quality Professional hand tools
Look for these bright yellow display
boards where you buy tools.
You'll Know You're Buying Indestro.
(See our colorful display catalog
for all the Indestro displays)



CONVERSION CHART FRACTIONAL-DECIMAL-METRIC

Milli- metre	Dec. Equiv.	Frac- tional	Milli- metre	Dec. Equiv.	Frac- tional	Milli- metre	Dec. Equiv.	Frac- tional	Milli- metre	Dec. Equiv.	Frac- tional	Milli- metre	Dec. Equiv.	Frac- tional
.1	.0039		1.75	.0689		—	.1570		6.8	.2677		10.72	.4219	$\frac{27}{64}$ "
.15	.0059		—	.0700		4.0	.1575		6.9	.2716		11.0	.4330	
.2	.0079		1.8	.0709		—	.1590		—	.2720		11.11	.4375	$\frac{7}{16}$ "
.25	.0098		1.85	.0728		—	.1610		7.0	.2756		11.5	.4528	
.3	.0118		—	.0730		4.1	.1614		—	.2770		11.51	.4531	$\frac{29}{64}$ "
—	.0135		1.9	.0748		4.2	.1654		7.1	.2795		11.91	.4687	$\frac{19}{32}$ "
.35	.0138		—	.0760		—	.1660		—	.2811		12.0	.4724	
—	.0145		1.95	.0767		4.25	.1673		7.14	.2812	$\frac{9}{32}$ "	12.30	.4843	$\frac{39}{64}$ "
.39	.0156	$\frac{1}{64}$ "	1.98	.0781	$\frac{5}{64}$ "	4.3	.1693		7.2	.2835		12.5	.4921	
.4	.0157		—	.0785		—	.1695		7.25	.2854		12.7	.5000	$\frac{1}{2}$ "
—	.0160		2.0	.0787		4.37	.1719	$\frac{11}{64}$ "	7.3	.2874		13.0	.5118	
.45	.0177		2.05	.0807		—	.1730		—	.2900		13.10	.5156	$\frac{33}{64}$ "
—	.0180		—	.0810		4.4	.1732		7.4	.2913		13.49	.5312	$\frac{17}{32}$ "
.5	.0197		—	.0820		—	.1770		—	.2950		13.5	.5315	
—	.0200		2.1	.0827		4.5	.1711		7.5	.2953		13.89	.5469	$\frac{35}{64}$ "
—	.0210		2.15	.0846		—	.1800		7.54	.2968	$\frac{19}{64}$ "	14.0	.5512	
.55	.0217		—	.0860		4.6	.1811		7.6	.2992		14.29	.5625	$\frac{9}{16}$ "
—	.0225		2.2	.0866		—	.1820		—	.3020		14.5	.5709	
.6	.0236		2.25	.0885		4.7	.1850		7.7	.3031		14.68	.5781	$\frac{37}{64}$ "
—	.0240		—	.0890		4.75	.1870		7.75	.3051		15.0	.5906	
—	.0250		2.3	.0905		4.76	.1875	$\frac{3}{16}$ "	7.8	.3071		15.08	.5937	$\frac{19}{32}$ "
.65	.0256		2.35	.0925		4.8	.1890		7.9	.3110		15.48	.6094	$\frac{39}{64}$ "
—	.0260		—	.0935		—	.1910		7.94	.3125	$\frac{5}{16}$ "	15.5	.6102	
—	.0280		2.38	.0937	$\frac{3}{32}$ "	4.9	.1929		8.0	.3150		15.88	.6250	$\frac{5}{8}$ "
.7	.0276		2.4	.0945		—	.1935		—	.3160		16.0	.6299	
—	.0292		—	.0960		—	.1960		8.1	.3189		16.27	.6406	$\frac{41}{64}$ "
.75	.0295		2.45	.0964		5.0	.1968		8.2	.3228		16.5	.6496	
—	.0310		—	.0980		—	.1990		—	.3230		16.67	.6562	$\frac{21}{32}$ "
.79	.0312	$\frac{1}{32}$ "	2.5	.0984		5.1	.2008		8.25	.3248		17.0	.6693	
.8	.0315		—	.0995		—	.2010		8.3	.3268		17.06	.6719	$\frac{43}{64}$ "
—	.0320		—	.1015		5.16	.2031	$\frac{13}{64}$ "	8.33	.3281	$\frac{21}{64}$ "	17.46	.6875	$\frac{11}{16}$ "
—	.0330		2.6	.0124		—	.2040		8.4	.3307		17.5	.6890	
.85	.0335		—	.1040		5.2	.2047		—	.3320		17.86	.7031	$\frac{45}{64}$ "
—	.0350		2.7	.1063		—	.2055		8.5	.3346		18.0	.7087	
.9	.0354		—	.1065		5.25	.2067		8.6	.3386		18.26	.7187	$\frac{23}{32}$ "
—	.0360		2.75	.1082		5.3	.2086		—	.3390		18.5	.7283	
—	.0370		2.78	.1094	$\frac{7}{64}$ "	—	.2090		8.7	.3425		18.65	.7344	$\frac{47}{64}$ "
.95	.0374		—	.1100		5.4	.2126		8.73	.3437	$\frac{11}{32}$ "	19.0	.7480	
—	.0380		2.8	.1102		—	.2130		8.75	.3445		19.05	.7500	$\frac{3}{4}$ "
—	.0390		—	.1110		5.5	.2165		8.8	.3465		19.45	.7656	$\frac{49}{64}$ "
1.0	.0394		—	.1130		5.56	.2187	$\frac{7}{32}$ "	—	.3480		19.5	.7677	
—	.0400		2.9	.1141		5.6	.2205		8.9	.3504		19.84	.7812	$\frac{25}{32}$ "
—	.0410		—	.1160		—	.2210		9.0	.3543		20.0	.7874	
1.05	.0413		3.0	.1181		5.7	.2244		—	.3580		20.24	.7969	$\frac{51}{64}$ "
—	.0420		—	.1200		5.75	.2263		9.1	.3583		20.5	.8071	
—	.0430		3.1	.1220		—	.2280		9.13	.3594	$\frac{23}{64}$ "	20.64	.8125	$\frac{13}{16}$ "
1.1	.0433		3.18	.1250	$\frac{1}{8}$ "	5.8	.2283		9.2	.3622		21.0	.8268	
1.15	.0452		3.2	.1260		5.9	.2323		9.25	.3641		21.03	.8281	$\frac{53}{64}$ "
—	.0465		3.25	.1279		—	.2340		9.3	.3661		21.43	.8437	$\frac{27}{32}$ "
1.19	.0469	$\frac{3}{64}$ "	—	.1285		5.95	.2344	$\frac{15}{64}$ "	—	.3680		21.5	.8465	
1.2	.0472		3.3	.1299		6.0	.2362		9.4	.3701		21.83	.8594	$\frac{55}{64}$ "
1.25	.0492		3.4	.1338		—	.2380		9.5	.3740		22.0	.8661	
1.3	.0512		—	.1360		6.1	.2401		9.53	.3750	$\frac{3}{8}$ "	22.23	.8750	$\frac{7}{8}$ "
—	.0520		3.5	.1378		—	.2420		—	.3770		22.5	.8858	
1.35	.0531		—	.1405		6.2	.2441		9.6	.3780		22.62	.8906	$\frac{57}{64}$ "
—	.0550		3.57	.1406	$\frac{9}{64}$ "	6.25	.2460		9.7	.3819		23.0	.9055	
1.4	.0551		3.6	.1417		6.3	.2480		9.75	.3838		23.02	.9062	$\frac{29}{32}$ "
1.45	.0570		—	.1440		6.35	.2500	$\frac{1}{4}$ "	9.8	.3858		23.42	.9219	$\frac{59}{64}$ "
1.5	.0591		3.7	.1457		6.4	.2520		—	.3860		23.5	.9252	
—	.0595		—	.1470		6.5	.2559		9.9	.3898		23.81	.9375	$\frac{15}{16}$ "
1.55	.0610		3.75	.1476		—	.2570		9.92	.3906	$\frac{25}{64}$ "	24.0	.9449	
1.59	.0625	$\frac{1}{16}$ "	—	.1495		6.6	.2598		10.0	.3937		24.21	.9531	$\frac{61}{64}$ "
1.6	.0629		3.8	.1496		—	.2610		—	.3970		24.5	.9646	
—	.0635		—	.1520		6.7	.2638		—	.4040		24.61	.9687	$\frac{31}{32}$ "
1.65	.0649		3.9	.1535		6.75	.2657	$\frac{17}{64}$ "	10.32	.4062	$\frac{13}{32}$ "	25.0	.9843	
1.7	.0669		—	.1540		6.75	.2657		—	.4130		25.03	.9844	$\frac{63}{64}$ "
—	.0670		3.97	.1562	$\frac{5}{32}$ "	—	.2660		10.5	.4134		25.4	1.0000	1"



THREAD DIAMETER OF BOLT, NUT, OR SCREW

Determine the type of bolt, nut or screw and locate the thread diameter below. Then move across the left hand column to find the wrench size that will fit the bolt head or nut.

American Standard Association (B18.2.1 and B18.2.2—1965)

Nominal Wrench Size Also width across flats of Bolts, Screw Heads and Nuts	Bolts		Nuts			
	Square Bolt Hex Bolt Hex Cap Screw (Finished Hex Bolt) Lag Screw	Heavy Hex Bolt Heavy Hex Screw Heavy Hex Structural Bolt	Square Nut	Hex Flat Hex Flat Jam Hex Hex Jam Hex Slotted Hex Thick Hex Thick Slotted Hex Castle	Heavy Square Heavy Hex Flat Heavy Hex Flat Jam Heavy Hex Heavy Hex Jam Heavy Hex Slotted	
9/32"	No. 10*	—	—	—	—	—
5/16"	—	—	—	—	—	—
11/32"	—	—	—	—	—	—
3/8"	1/4"*	—	—	—	—	—
7/16"	1/4"	—	1/4"	1/4"	—	—
1/2"	5/16"	—	—	5/16"	1/4"	—
9/16"	3/8"	—	5/16"	3/8"	5/16"	—
19/32"	—	—	—	—	—	—
5/8"	7/16"	—	3/8"	—	—	—
11/16"	—	—	—	7/16"	3/8"	—
3/4"	1/2"	—	7/16"	1/2"	7/16"	—
13/16"	9/16"	—	1/2"	—	—	—
7/8"	—	1/2"	—	9/16"	1/2"	—
15/16"	5/8"	—	—	5/8"	9/16"	—
31/32"	—	—	—	—	—	—
1"	—	—	5/8"	—	—	—
1 1/16"	—	5/8"	—	—	5/8"	—
1 1/8"	3/4"	—	3/4"	3/4"	—	—
1 1/4"	—	3/4"	—	—	3/4"	—
1 5/16"	7/8"	—	7/8"	7/8"	—	—
1 3/8"	—	—	—	—	—	—
1 7/16"	—	7/8"	—	—	7/8"	—
1 1/2"	1"	—	1"	1"	—	—
1 5/8"	—	1"	—	—	1"	—
1 11/16"	1 1/8"	—	1 1/8"	1 1/8"	—	—
1 13/16"	—	1 1/8"	—	—	1 1/8"	—
1 7/8"	1 1/4"	—	1 1/4"	1 1/4"	—	—
2"	—	1 1/4"	—	—	1 1/4"	—
2 1/16"	1 3/8"	—	1 3/8"	1 3/8"	—	—
2 3/16"	—	1 3/8"	—	—	1 3/8"	—
2 1/4"	1 1/2"	—	1 1/2"	1 1/2"	—	—
2 3/8"	—	1 1/2"	—	—	1 1/2"	—
2 7/16"	1 5/8"	—	—	—	1 5/8"	—
2 9/16"	—	1 5/8"	—	—	1 5/8"	—
2 5/8"	1 3/4"	—	—	—	—	—
2 3/4"	—	1 3/4"	—	—	1 3/4"	—
2 13/16"	1 7/8"	—	—	—	—	—
2 15/16"	—	1 7/8"	—	—	1 7/8"	—
3"	2"	—	—	—	—	—
3 1/8"	—	2"	—	—	2"	—

*Regular square only.

TORQUE CONVERSION CHART

Inch Pounds	Foot Pounds	Newton Meter	Centimeter Kilogram	Meter Kilogram
1/4	—	—	—	—
1/2	—	—	—	—
1	—	0.113	1.15	—
6	1/2	0.678	6.91	—
12	1	1.356	13.82	0.138
24	2	2.712	27.65	0.276
36	3	4.067	41.47	0.415
48	4	5.423	55.30	0.553
60	5	6.779	69.20	0.692
72	6	8.135	82.95	0.829
84	7	9.491	96.77	0.967
96	8	10.846	110.60	1.106
108	9	12.202	124.42	1.244
120	10	13.558	138.25	1.382
—	20	27.116	276.50	2.764

TORQUE CONVERSION CHART

Inch Pounds	Foot Pounds	Newton Meter	Centimeter Kilogram	Meter Kilogram
—	30	40.674	414.75	4.146
—	40	54.232	553.00	5.528
—	50	67.790	691.25	6.910
—	60	81.348	829.50	8.292
—	70	94.906	967.75	9.674
—	80	108.464	1106.00	11.056
—	90	122.022	1244.25	12.438
—	100	135.580	1382.50	13.820
—	125	169.475	1728.20	17.276
—	150	203.370	2073.90	20.732
—	175	237.265	2419.60	24.188
—	200	271.160	2765.30	27.644
—	250	338.950	3456.70	34.556
—	300	406.740	4148.10	41.468



Indestro No.	Page No.	Indestro No.	Page No.	Indestro No.	Page No.	Indestro No.	Page No.	Indestro No.	Page No.	Indestro No.	Page No.
T1A	40	247	60	287A-1	59	520	50	752	42	988-2	54
T2	40	247H	60	288A	59	522	51	753A	42	988-3	54
T2A	40	248	62	289	61	540	50	757	42	989	54
T3	40	248-3	62	289-1	61	540L	50	767S	41	989-2	54
T4	40	248-8	62	289-2	61	540T	25	768S	41	989-3	54
CF-11	66	248-9	62	289-3	61	542	50	769A	42	993	54
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CF-63	67	252-6	60	298-1	59	546T	25	771S	41	1036B	40
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CF-64	67	253-3	60	343	72	550	50	773S	41	1144	33
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73	51	255-2	60	371	40	566	50	777	41	1150D-8	32
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